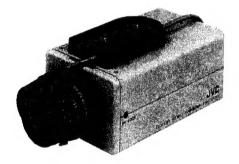
JVC

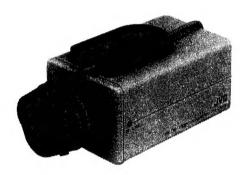
SERVICE MANUAL

COLOR VIDEO CAMERA

TK-C600/TK-C601EG



TK-C600 (Lens is optional.)



TK-C601 (Lens is optional.)

SPECIFICATIONS

Image sensor

Signal system TK-C600U

Image sensor

Color Video Camera Based on NTSC standard

TK-C600E/601EG: Based on PAL standard : Interline-transfer CCD

(with complementary color

filter)

Number of effective pixels

TK-C600U

: 250,000 (512 (H) × 492 (V)) TK-C600E/601EG: 300,000 (512 (H) × 582 (V))

Image size

1/3 inch (pickup area: 4.8

 $(H) \times 3.6 (V) mm$

Synchronization method

TK-C600U

: Internal and line lock syn-

chronization

(60-Hz regions only)

TK-C600E/601EG: Internal and line lock syn-

chronization

(50-Hz regions only)

Scanning lines

TK-C600U

: 525 lines, 2:1 interlaced

TK-C600E/601EG: 625 lines, 2:1 interlaced

Scanning frequency

TK-C600U

: (H)15.734 kHz (V)59.94 Hz

TK-C600E/601EG: (H)15.625 kHz (V)50.0 Hz

Resolution Video output

330 TV lines (horizontal) Composite video signal

1Vp-p, 75 Ω , unbalanced

Video S/N ratio

Minimum required illumination

Switching functions

: 1.5 lx (F1.2) AGC (ON/OFF), BLC (ON/

OFF, Sync (INT/LL), White balance (Auto/Manu) : Flange-back, Manual white

Adjusting functions

balance (1 axes: R-B). V phase, IRIS LEVEL Control : C/CS mount

Lens mount Power supply TK-C600U

24 V AC, 50/60 Hz 24 V AC, 50/60 Hz, 12 V TK-C600E

: 46 dB

TK-C601EG : 220 V to 240 V AC 50/ 60 Hz

Power consumption

TK-C600U : 4 W TK-C600E 4W TK-C601EG . 45W

Operating temperature range

: -10°C to +50°C (Recommended tempera-

ture range: 0°C to +40°C)

TK-C600U Weight : 470 g : 470 g TK-C600E TK-C601EG : 800 g

: 4P plug×1 Provided accessory

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

		F	Page
IV	PORT	ANT SAFETY PRECAUTIONS	
IN	STRU	CTIONS	
1.	DISAS	SSEMBLY	1
2.	ELEC	TRICAL ADJUSTMENT	4
3.	CHAF	RTS AND DIAGRAMS	6
	3.1	BLOCK DIAGRAMS	7
	3.2	CCD/PROCESS BOARD SCHEMATIC DIAGRAM	8
	3.3	CCD CIRCUIT BOARD	9
	3.4	PROCESS CIRCUIT BOARD	9
	3.5	MOTHER/SUB/TER/EE BOARD SCHEMATIC DIAGRAM (TK-C600)	10
	3.6	MOTHER CIRCUIT BOARD (TK-C600)	11
	3.7	TER CIRCUIT BOARD (TK-C600)	11
	3.8	SUB CIRCUIT BOARD (TK-C600)	11
	3.9	EE CIRCUIT BOARD	11
	3.10	MOTHER/SUB/TER/EE BOARD SCHEMATIC DIAGRAM (TK-C601EG)	12
	3.11	MOTHER CIRCUIT BOARD (TK-C601EG)	13
	3.12	TER CIRCUIT BOARD (TK-C601EG)	13
	3.13	SUB CIRCUIT BOARD (TK-C601EG)	13
	3.14	EE CIRCUIT BOARD (TK-C601EG)	13
	3.15	SCHEMATIC DIAGRAMS OF IC's	14
4.	EXPL	ODED VIEW AND PARTS LIST	24
5.	ELEC	CTRICAL PARTS LIST	26
6	DED/	ACKINIC	36

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

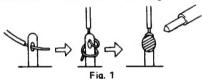
- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the A symbol and shaded () parts are critical for safety.

Replace only with specified part numbers.

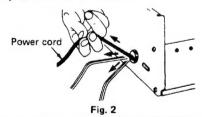
Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- Fuse replacement caution notice.
 Caution for continued protection against fire hazard.
 Replace only with same type and rated fuse(s) as specified.
- 4. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
- 3) Spacers
- 5) Barrier

- 2) PVC tubing
- 4) Insulation sheets for transistors
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.



- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs)
 In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

- 12. Crimp type wire connector
 - In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
 - 1) Connector part number: E03830-001
 - Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
 - 3) Replacement procedure
 - (1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).

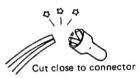


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid fraved conductors.



(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

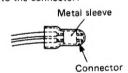


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.



Fig. 6

(5) Check the four points noted in Fig. 7.

Not easily pulled free Crimped at approx. center of metal sleeve

Wire insulation recessed more than 4 mm

Fig. 7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

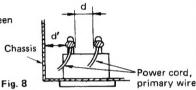
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

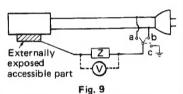


4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.



5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

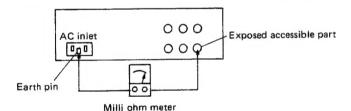


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V		- > 4 440 (F00 \/ DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	-	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \ge 4 \text{ mm}$ $d' \ge 8 \text{ mm (Power cord)}$ $d' \ge 6 \text{ mm (Primary wire)}$

Table 1 Specifications for each region

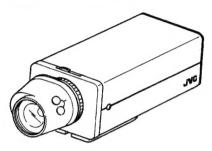
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c		
100 V	Japan	0	i ≦ 1 mA rms	Exposed accessible par		
110 to 130 V	USA & Canada	0.15 μF	i ≦ 0.5 mA rms	Exposed accessible part		
110 to 130 V	G. A	0—O 2 k\$2	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Antenna earth terminal		
220 to 240 V	Europe & Australia	0—∕√√—0 50 k\$}	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Other terminals		

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INSTRUCTIONS (For U Version)

JVC TK-C600 COLOR VIDEO CAMERA



The lens is optional

For Customer Use:

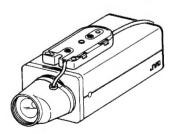
Enter below the Serial No. which is located on the top of the body. Retain this information for future reference.

Model No. TK-C600

Serial No.

INSTRUCTIONS (For E Version)

TK-C601 COLOR VIDEO CAMERA



The lens is optional







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equi-lateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Information for USA

This device complies with Part 15 of the FCC Rules. Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

Due to design modification, data given in this instruction book are subject to possible change without prior notice.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR CANADA)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur : "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Due to design modification, data given in this instruction book are subject to possible change without prior notice.

WARNING-THIS APPLIANCE MUST BE EARTHED IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW: EARTH

BLUE: BROWN: NEUTRAL

LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug wihich is marked with the letter E or by the safety earth symbol \pm or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminall which is marked with the letter L or coloured RED.

Thank you for purchasing the JVC color video camera. To obtain the best results from your new camera, read this instructions carefully before use; retain the manual for future reference.

CONTENTS

FEATURES						 	,
PRECAUTIONS							
CONTROLS, CONNECTORS AND INDICA	T	OF	35	6	 	 	
CONNECTION							
LENS							
SPECIFICATIONS							

FEATURES

- 1/3" approx. 270,000 pixels (approx. 250,000 pixels effective) IT-CCD for clear pictures without image lag or geometrical distortion. High-sensitivity design for a low-light sensitivity of 1.5 lx (F1. 2).
- TTL auto tracking white balance adjustment and manual override (1 axis: R-B).
- AGC function to automatically increase camera's sensitivity when the level of ambient light drops.
- Since the camera uses 24V AC, it can be installed and built into a system easily.
- Internal and line lock synchronization (60-Hz regions only) can be selected by switch.
- The automatic electronic shutter adjusts its speed automatically to provide correct exposure even if a manual iris lens is used.

- The built-in backlight compensation function improves the image quality for backlighting subjects.
- The back focus adjustment function allows easy adjustment and installation.
- C-mount or CS-mount lens can be attached to the camera by using the lens mount adjustable function.

PRECAUTIONS

- Since this camera contains an AGC circuit, the sensitivity increases automatically in dark places. It is not a failure when the image looks grainy.
- If a zoom lens is used, check the back focus before mounting the camera.
 - This also applies to lens ALC and LEVEL. (See the instructions for details.)
- If a high-intensity object (such as a lamp) is shot, the image on the screen may have vertical lines (smear) or blur (blooming) at its periphery (especially in AES mode). This is a characteristic of the CCD, and is not a defect.
- If an EE lens is used, set the electronic automatic shutter switch (AES) to OFF. If set to ON, flickering may occur. If a manual iris lens is used, set the AES to ON.
- The automatic tracking system may not function properly when shooting with non-standard lighting or lighting with a color temperature which exceeds the capability of the camera. In such a case, set to the "MANU" position.
- When used in hot places, vertical lines may appear on the screen of this camera. This is a characteristic of the CCD and not a failure of the camera.
- If the camera subject is a single solid colour (other than white), the auto white circuit will normally attempt to change this colour to white. In the case of this camera, if it cannot make a correct prediction, the previous white balance setting will be maintained until the subject colours become more varied.

Thank you for purchasing the JVC color video camera. To obtain the best results from your new camera, read this instructions carefully before use; retain the manual for future reference.

CONTENTS

FEATURES	2
PRECAUTIONS	
CONTROLS, CONNECTORS AND INDICATORS	3
CONNECTION	
LENS	7
SPECIFICATIONS	10

FEATURES

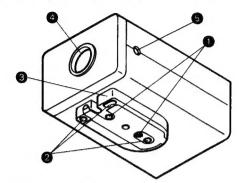
- As this unit runs on commercial 220 to 240V AC power, you
 do not have to provide a power supply unit.
- 1/3" approx. 320,000 pixels (approx. 300,000 pixels effective) IT-CCD for clear pictures without image lag or geometrical distortion. High-sensitivity design for a low-light sensitivity of 1.5 lx (F1.2).
- TTL Auto tracking white balance adjustment and manual override (1 axis: R-B)
- AGC function to automatically increase camera's sensitivity when the level of ambient light drops.
- Internal and line lock synchronization (50-Hz regions only) can be selected by switch.

- The automatic electronic shutter adjusts its speed automatically to provide correct exposure even if a manual iris lens is used.
- The built-in backlight compensation function improves the image quality for backlighting subjects.
- The back focus adjustment function allows easy adjustment and installation.
- C-mount or CS-mount lens can be attached to the camera by using the lens mount adjustable function.

PRECAUTIONS

- Since this camera contains an AGC circuit, the sensitivity increases automatically in dark places. It is not a failure when the image looks grainy.
- If a zoom lens is used, check the back focus before mounting the camera. This also applies to lens ALC and LEVEL. (See the instructions on lenses for details.)
- If a high-intensity object (such as a lamp) is shot, the image on the screen may have vertical lines (smear) or blur (blooming) at its periphery (especially in AES mode). This is a characteristic of the CCD, and is not a defect.
- If an EE lens is used, set the electronic automatic shutter switch (AES) to OFF. If set to ON, flickering may occur. If a manual iris lens is used, set the AES to ON.
- When used in hot places, vertical lines may appear on the screen of this camera. This is a characteristic of the CCD and not a failure of the camera.
- The automatic tracking system may not function properly when shooting with non-standard lighting or lighting with a color temperature which exceeds the capability of the camera. In such a case, set to the "MANU" position.
- If the camera subject is a single solid colour (other than white), the auto white circuit will normally attempt to change this colour to white. In the case of this camera, if it cannot make a correct prediction, the previous white balance setting will be maintained until the subject colours become more varied.

CONTROLS, CONNECTORS AND INDICATORS



1 Camera mounting screw holes (1/4")

These screw holes are used to install the camera on a mount or PAN/TILT UNIT. Use either of the two holes according to the situation.

Camera mounting bracket fixing screws (three)

Camera mounting bracket

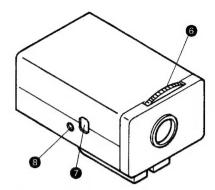
The camera mounting bracket is mounted on the bottom of the camera at the factory. It can be installed on the top of the camera if necessary. Fit the mounting bracket on the top of the camera head with the three screws 2.

4 Lens mount

This mount is used to install a C-mount lens (1/3, 1/2, 2/3, 1 inch) or CS-mount lens (1/2, 1/3 inch)

[BF LOCK] Back focus locking screw

This screw locks the back focus adjustment mechanism.



6 Back focus adjustment ring

This ring is used to adjust the back focus and change the lens mount method. Loosen screw (5) to turn the ring, and tighten the screw after adjustment.

[DC IRIS] DC iris connector

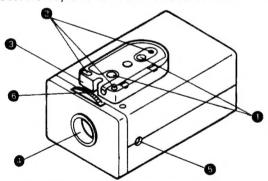
Connect an auto-iris lens that does not contain an EE amplifier. If the lens cable has a different type of plug, use the supplied 4-pin plug.

3 [LEVEL] Sensitivity adjustment volume

Adjust the brightness of the image when the DC iris connector $\ensuremath{\mathcal{T}}$ is used.

Monitor screen	LEVEL turning direction
Too bright	Counterclockwise (Towards L)
Too dark	Clockwise (Towards H)

CONTROLS, CONNECTORS AND INDICATORS



1 Camera mounting screw holes (1/4")

These screw holes are used to install the camera on a mount or PAN/TILT UNIT. Use either of the two holes according to the situation.

Camera mounting bracket fixing screws (three)

3 Camera mounting bracket

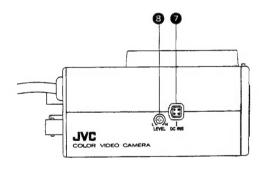
The camera mounting bracket is mounted on the top of the camera at the factory. It can be installed on the bottom of the camera if necessary. Fit the mounting bracket on the bottom of the camera head with the three screws ②.

4 Lens mount

This mount is used to install a C-mount lens (1/3, 1/2, 2/3, 1 inch) or CS-mount lens (1/2, 1/3 inch)

6 [BF LOCK] Back focus locking screw

This screw locks the back focus adjustment mechanism.



Back focus adjustment ring

This ring is used to adjust the back focus and change the lens mount method. Loosen screw 5 to turn the ring, and tighten the screw after adjustment.

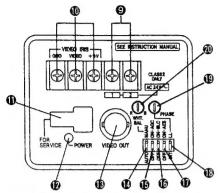
[DC IRIS] DC iris connector

Connect an auto-iris lens that does not contain an EE amplifier. If the lens cable has a different type of plug, use the 4-pin plug supplied.

(B) [LEVEL] Sensitivity adjustment volume

Adjust the brightness of the image when the DC iris connector 7 is used.

Monitor screen	LEVEL turning direction		
Too bright	Counterclockwise (Towards L)		
Too dark	Clockwise (Towards H)		



9 [AC24V~] Power input terminal

Connect the 24V AC power supply [VIDEO IRIS] Video iris terminal

Connected to an auto-iris lens containing an EE amplifier.

RS-232C Interface Connector This connector is used for service.

Power lamp
[POWER] Power lamp

ights when the power is on.

(IVIDEO OUT) Video signal output connector Outputs the video signal from the camera. Connect to a video monitor, etc. (75Ω)

[WHT. BAL] White balance select switch This is used for changing the setting of the white balance.

MANU: Manual adjustment is possible.

AUTO: Accepts different types of lighting (2,850K – 7,000K) using an automatic tracking system.

[AGC] Automatic Gain Control Switch This automatically increases the camera's sensitivity when the level of ambient light drops.

ON: AGC is activated. OFF: AGC is not activated. (BLC) Backlight compensation switch

This switch improves an image that is darkened because of backlighting

Set this switch to ON for backlight subjects.

[AES] Automatic Electronic Shutter switch If this switch is set to "ON" when the manual iris lens is used, the shutter speed varies according to the brightness of the object, and the brightness of the image is automatically adjusted. If the aperture is fixed or if an EE lens is used, set this switch to

NOTE

Hunting may occur at a certain object brightness due to the mechanism of the AES circuit, but this is not a failure.

Synchronization select switch

INT: Set the switch to this position to use the internal sync signal (SYNC or VS).

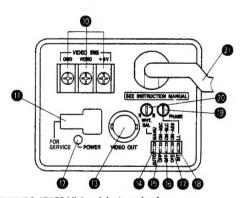
The camera operates in synchronization with the internal sync signal.

LL: Set the switch to this position to use the frequency of the 24 AC power supply for synchronization (in 60-Hz power

[PHASE] Line lock synchronization phase adjustment Used to adjust the phase when the synchronization select switch B is set to "LL"

Adjust this volume so that the vertical phase of the camera matches the vertical phase of another camera (or system) with a multi-channel oscilloscope. (If the phases do not match using this method, reverse the polarities of the 24V AC power to the camera, then adjust again.)

White balance adjustment controls When the white balance select switch (1) is set to "MANU" the white balance can be adjusted manually. Turn to the "B" side to decrease the amount of red. Turn to the "R" side to decrease the amount of blue.



(VIDEO IRIS) Video iris terminal

Connected to an audio-iris lens containing an EE amplifier.

RS-232C Interface Connector

This connector is used for service.

[POWER] Power lamp

Lights when the power is on.

[VIDEO OUT] Video signal output connector Outputs the video signal from the camera. Connect to a video monitor, etc. (75Ω)

[WHT. BAL] White balance select switch

This is used for changing the setting of the white balance MANU: Manual adjustment is possible.

AUTO: Accepts different types of lighting (2,850K -7,000K) using an automatic tracking system.

(B) [AGC] Automatic Gain Control Switch

This automatically increases the camera's sensitivity when the level of ambient light drops.

ON: AGC is activated.

OFF: AGC is not activated.

(BLC) Backlight compensation switch

This switch improves an image that is darkened because of backlighting.

Set this switch to ON for backlight subjects.

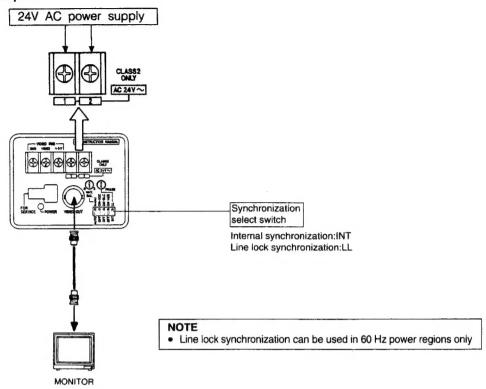
[AES] Automatic Electronic Shutter switch

If this switch is set to "ON" when the manual iris lens is used, the shutter speed varies according to the brightness of the object, and the brightness of the image is automatically adjust-

If the aperture is fixed or if an EE lens is used, set this switch to OFF.

CONNECTION

Connection examples



NOTE

 Hunting may occur at a certain object brightness due to the mechanism of the AES circuit, but this is not a failure.

Synchronization select switch

- INT: Set the switch to this position to use the internal sync signal (SYNC or VS). The camera operates in synchronization with the internal sync signal.
- LL: Set the switch to this position to use the frequency of the AC power supply for synchronization (in 50-Hz power regions only).
- [PHASE] Line lock synchronization phase adjustment Used to adjust the phase when the synchronization select switch is set to "LL".

Adjust this volume so that the vertical phase of the camera matches the vertical phase of another camera (or system) with a multi-channel oscilloscope. (If the phases do not match using this method, reverse the polarities of the AC power to the camera, then adjust again.)

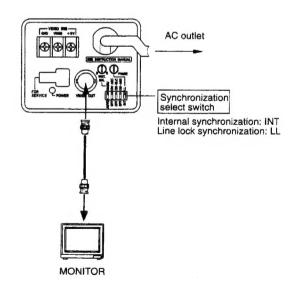
White balance adjustment controls

When the white balance select switch is set to "MANU" the white balance can be adjusted manually. Turn to the "B" side to decrease the amount of red. Turn to the "R" side to decrease the amount of blue.

Power cord (TK-C601 only)
Supply power from an AC outlet (220 to 240 V)

CONNECTION

Connection examples



NOTE

Line lock synchronization can be used in 50 Hz power regions only

LENS

Mounting a lens

Before mounting
 ■ lens, check whether it is a C-mount or CS-mount one.

This camera has a CS-mount. (Fig. 1-1) If a C-mount lens is used, loosen back focus locking screw (Page 3), then turn the back focus adjustment ring (Page 3) in the direction of the arrow in the Fig. 1-1 to change the mounting method. (Fig. 1-2 shows the state for the C-mount.)

CAUTIONS

 The ring cannot be turned with fingers from a certain point. Use a screwdriver or any other tool with a thin tip to turn it further.

 Dimension L of the lens shown in the illustration below must be as shown in the table below. If L exceeds the value in the table, it may damage the inside of the camera or correct mounting may be impossible; never use such lenses. Do not attach the C-mount lens when using a CS-mount.

focal point

Lens	Flange back	Dimension L				
C mount lens	17.526 mm	10 mm or less				
CS mount lens	12.5 mm	5.5 mm or less				

② Mount the lens on the camera by turning the lens clockwise. Adjust its position. (Fig. 2)

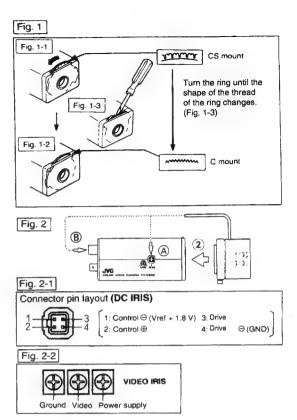
(3) If the lens has an auto-iris mechanism, connect the lens cable.

If the lens does not contain an EE amplifier, connect the cable to the DC IRIS connector on the side.

If the lens cable has a different type of plug, use the 4-pin

plug supplied. (Fig. 2-1)

B If the lens contains an EE amplifier, connect the cable to the VIDEO IRIS terminal on the rear. (Fig. 2-2)



LENS

Mounting a lens

Before mounting a lens, check whether it is a C-mount or CS-mount one.

This camera has a CS-mount. (Fig. 1-1) If a C-mount lens is used, loosen back focus locking screw (Page 3), then turn the back focus adjustment ring (Page 3) in the direction of the arrow in the Fig. 1-1 to change the mounting method. (Fig. 1-2 shows the state for the C-mount.)

CAUTIONS

 The ring cannot be turned with fingers from a certain point. Use a screwdriver or any other tool with a thin tip to turn it further.

 Dimension L of the lens shown in the illustration below must be as shown in the table below. If L exceeds the value in the table, it may damage the inside of the camera or correct mounting may be impossible; never use such lenses. Do not attach the C-mount lens when using a CS-mount.



Lens	Flange back	Dimension L				
C mount lens	17.526 mm	10 mm or less				
CS mount lens	12.5 mm	5.5 mm or less				

② Mount the lens on the camera by turning the lens clockwise. Adjust its position. (Fig. 2)

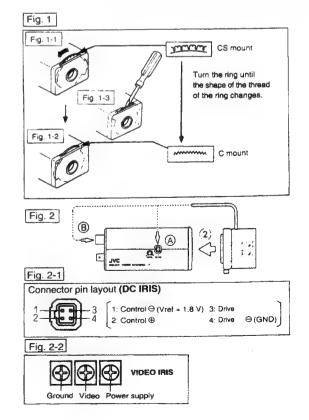
3) If the lens has an auto-iris mechanism, connect the lens cable.

If the lens does not contain an EE amplifier, connect the cable to the DC IRIS connector on the side.

If the lens cable has a different type of plug, use the 4-pin plug supplied. (Fig. 2-1)

plug supplied. (Fig. 2-1)

B if the lens contains an EE amplifier, connect the cable to the VIDEO IRIS terminal on the rear. (Fig. 2-2)



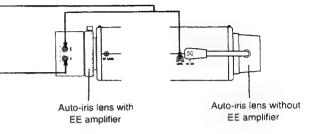
 Connect the camera according to the connection method, turn it on, display an image on the monitor, and check the image. The camera has been factory-adjusted to the widest range, but it may need to be adjusted according to the object conditions or combination of lenses. If the image is unnatural, adjust it as follows:

LEVEL adjustment

Monitor screen	LEVEL turning direction
Too bright	Counterclockwise (Toward L)
Too dark	Clockwise (Toward H)

ALC adjustment

Monitor screen	ALC turning direction		
Part (high-intensity part) of the screen halates.	Clockwise (Toward Pk		
Other part of screen (except high-intensity part) darkens.	Counterclockwise (Toward Av)		



NOTE: If the sensitivity adjustment [LEVEL] is turned excessively to L, the sensitivity increases because of the AGC function of the camera, and the image looks grainy.

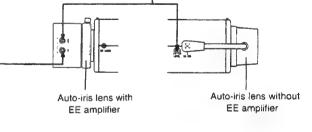
 Connect the camera according to the connection method, turn it on, display an image on the monitor, and check the image. The camera has been factory-adjusted to the best position, but it may need to be adjusted according to the object conditions or combination of lenses. If the image is unnatural, adjust it as follows:

LEVEL adjustment

Monitor screen	LEVEL turning direction
Too bright	Counterclockwise (Toward L)
Too dark	Clockwise (Toward H)

ALC adjustment

Monitor screen	ALC turning direction
Part (high-intensity part) of the screen halates.	Clockwise (Toward Pk)
Other part of screen (except high-intensity part) darkens.	Counterclockwise (Toward Av)



NOTE: If the sensitivity adjustment [LEVEL] is turned excessively to L, the sensitivity increases because of the AGC function of the camera, and the image looks grainy.

· Back focus adjustment

The back focus has been factory-adjusted to the best point for CS-mount lens, but it may need to be re-adjusted if the mount is changed to the C-mount or if a different lens is used. If required, adjust it as follows:

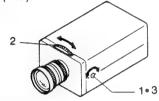
With a fixed-focus lens

If the focus can not be adjusted correctly by rotating the lens focus ring, adjust the back focus as follows.

- Loosen the back focus securing screw by turning it counterclockwise () with a screwdriver.
- Turn the back focus adjustment ring to focus at the best point.
- 3. Tighten the back focus securing screw by turning it clockwise (\sqrt{s}).

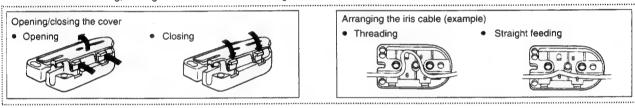


- If the image is out of focus when zooming (wide-angle -telephoto), adjust the camera as follows:
- Shoot a comparatively dark scene with thin lines about three meters away from the camera.
- ② Set the lens to the maximum telephoto position, and adjust the lens focus.
- 3 Set the lens to the maximum wide-angle position, and adjust the back focus.
- 4 Repeat steps 2 and 3 two or three times.



. Installing the EE cable

If the cable is too long, arrange it in the camera mounting bracket as shown below.



· Back focus adjustment

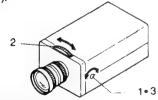
The back focus has been factory-adjusted to the best point for CS-mount lens, but it may need to be re-adjusted if the mount is changed to the C-mount or if a different lens is used. If required, adjust it as follows:

With a fixed-focus lens

- If the focus can not be adjusted correctly by rotating the lens focus ring, adjust the back focus as follows.
- Loosen the back focus locking screw by turning it counterclockwise () with a screwdriver.
- Turn the back focus adjustment ring to focus at the best point.
- Tighten the back focus locking screw by turning it clockwise (~).

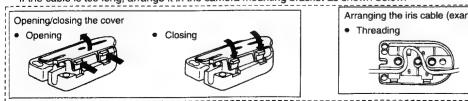
With a zoom lens

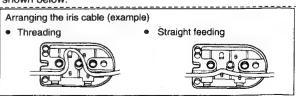
- If the image is out of focus when zooming (wide-angle -telephoto), adjust the camera as follows:
- Shoot a comparatively dark scene with thin lines about three meters away from the camera.
- ② Set the lens to the maximum telephoto position, and adjust the lens focus.
- 3 Set the lens to the maximum wide-angle position, and adjust the focus.
- 4 Repeat steps 2 and 3 two or three times.



· Installing the EE cable

If the cable is too long, arrange it in the camera mounting bracket as shown below.





[TK-C600U] **SPECIFICATIONS**

Type

Signal system Image sensor

: Color Video Camera : Based on NTSC standard

: Interline-transfer CCD (with complementary color filter)

Number of effective pixels

Image size Synchronization method : 250,000 (512 (H) × 492 (V)) : 1/3 inch(pickup area: 4.8(H) × 3.6(V) mm)

: Internal, and line lock synchronization (60-Hz regions only)

Scanning lines Scanning frequency

Video S/N ratio

Resolution Video output : (H) 15.734 kHz (V) 59.94 Hz : 330 TV lines (horizontal)

: 525 lines, 2:1 interlaced

: Composite video signal 1V(p-p), 75Ω,

: AGC (ON/OFF), BLC (ON/OFF), Sync

unbalanced : 46 dB : 1.5 lx (F1.2)

Minimum required Illumination

Switching functions

(INT/LL), White balance (Auto/Manu) : Flange-back, Manual white balance (1 axis: **Adjusting functions** R-B). V phase, IRIS LEVEL Control

Lens mount : C/CS mount : 24V AC, 50/60 Hz Power supply : 4 W

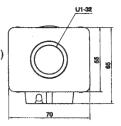
Power consumption Operating temperature range

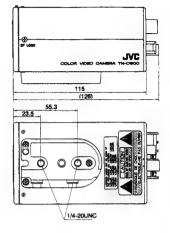
: -10°C to +50°C (Recommended temperature range: 0°C to +40°C)

Weight **Provided accessory**

: 4P Plug×1

Dimensions (mm)





Design and specifications are subject to change without notice.

[TK-C601EG] **SPECIFICATIONS**

Signal system Image sensor

: Color Video Camera : Based on PAL standard

: Interline-transfer CCD (with complementary color filter)

Number of effective pixels

: 300,000 (512 (H) × 582 (V)) (pickup area: 4.8(H) × 3.6(V)

: 1/3 inch Image size

Synchronization method : Internal, and line lock synchro-

nization (50-Hz regions only) : 625 lines, 2:1 interlaced : (H) 15.625 kHz (V) 50.0 Hz : 330 TV lines (horizontal)

Scanning frequency Resolution Video output

Scanning lines

: Composite video signal 1Vp-p, 75 Ω , unbalanced

Video S/N ratio : 46 dB Minimum required : 1.5 lx (F1.2)

Switching functions

illumination : AGC (ON/OFF), BLC (ON/OFF),

Sync (INT/LL), White balance (Auto/Manu)

Adjusting functions

: Flange-back, Manual white balance (1 axis: R-B). V phase, IRIS LEVEL Control

Lens mount

: C/CS mount

Power supply **Power consumption** Operating temperature

range

Weight **Provided accessory** : 220 V to 240 V AC 50/60 Hz : 4.5 W

: -10°C to +50°C (Recommended

temperature range: 0°C to +40°C)

: 800 g : 4P Plug×1

[TK-C600E] **SPECIFICATIONS**

Type

Signal system

image sensor

Number of effective pixels

Image size Synchronization method

Scanning lines Scanning frequency Resolution

Video output

Video S/N ratio Minimum required

illumination

Switching functions

Adjusting functions

Lens mount

Power supply Power consumption Operating temperature

range Weight

Provided accessory

: Color Video Camera

: Based on PAL standard

: Interline-transfer CCD (with complementary color filter) : 300,000 (512 (H) × 582 (V))

(pickup area: 4.8(H) × 3.6(V)

: 1/3 inch

: Internal, and line lock synchronization (50-Hz regions only) : 625 lines, 2:1 interlaced

: (H) 15.625 kHz (V) 50.0 Hz : 330 TV lines (horizontal)

: Composite video signal 1Vp-p, 75 Ω , unbalanced

: 46 dB : 1.5 lx (F1.2)

: AGC (ON/OFF), BLC (ON/OFF),

Sync (INT/LL), White balance (Auto/Manu)

: Flange-back, Manual white balance (1 axis: R-B). V phase,

IRIS LEVEL Control : C/CS mount

: 24V AC, 50/60 Hz, 12V DC

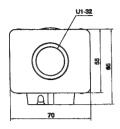
: 4 W : -10°C to +50°C (Recommended

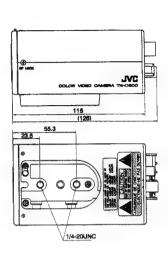
temperature range: 0°C to +40°C)

: 470 q

: 4P Plug×1

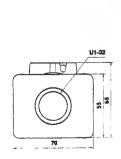
Dimensions (mm)

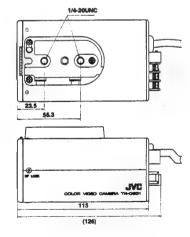




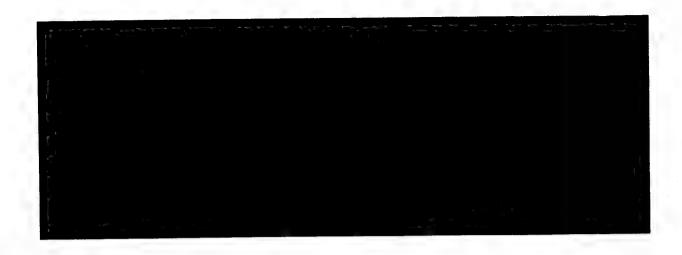
Design and specifications are subject to change without notice.

Dimensions (mm):





Design and specifications are subject to change without notice.













SECTION 1 DISASSEMBLY

1.1 FUSE REPLACEMENT (TK-C600)

Before replacing a fuse, the reason why it blew should be invested to prevent trouble from spreading. The malfunction should be repaired before replacing the fuse.

- Detach the top cover, the rear panel and the bottom cover according to "1.2 REMOVAL OF TOP COVER", "1.3 RE-MOVAL OF REAR PANEL" and "1.4 REMOVAL OF BOT-TOM COVER".
- Detach the chassis and boards according to "1.5 RE-MOVAL OF BOARDS".
- 3. There is the fuse F101 on the MOTHER BOARD.

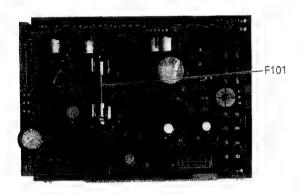


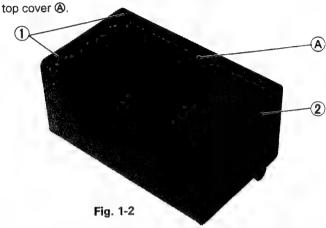
Fig. 1-1

For the safety and protection of the unit, replace only with fuse having specified part numbers.

	Part Number				
	U version	E version			
<u></u>	QMF51U1-1R0 1 A 125 A	QMF51A2-1R0 T1 A 250 V			

1.2 REMOVAL OF TOP COVER

Remove two screws ① and a screw ②, and then detach the top cover ②



1.3 REMOVAL OF REAR PANEL

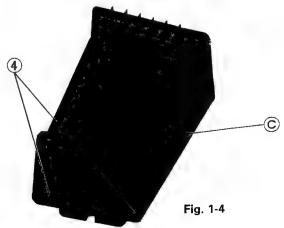
Remove three screws ③, and then remove the rear panel ⑤ with TERMINAL board.



Fig. 1-3

1.4 REMOVAL OF BOTTOM COVER

Remove two screws (4), and then detach the bottom cover (©).



1.5 REMOVAL OF BOARDS

Remove a screw (5) from the CHASSIS (D), and then remove the PR board.

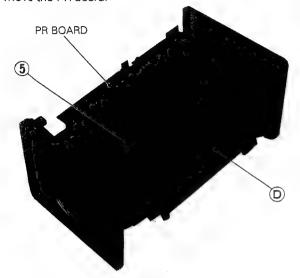


Fig. 1-5

2. Remove a screw (a) from the CHASSIS (b), and then remove the MOTHER board. The SUB board is connected with the MOTHER board show in Fig. 1-7.

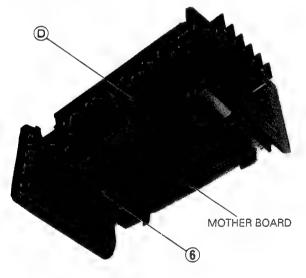


Fig. 1-6

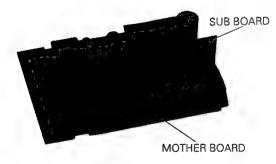


Fig. 1-7

1.6 REPLACEMENT OF CCD IMAGE SENSOR

- The CCD image sensor is not interchangeable with anything other than the specified one.
- Be careful in handling a new image sensor not to leave fingerprints on the glass surface as well as not to make it grease-stained. To clean dust and greasy stain, breathe out to mist the glass surface and gently wipe it with cotton swab, etc. (Do not use alcohol and the like.)
- After replacement of the CCD image sensor, the set needs to undergo electrical adjustment.
- The image sensor has a weak characteristic in electrostatic destruction. When replacing, make sure to electrostatic shielding of the CCD image sensor.
- For a while after removing the image sensor, there are electric charge remaining at the circuit terminals. If a new image sensor is set into the socket in such a condition, it may damage it in a moment because of stored electric charge. When replacing the image sensor, wait a few (2 to 3) minutes after removing it before setting new one into the socket.

OPTICAL LOW PASS FILTER

The optical low pass filter has no direction of front and behind. Treat carefully that don't stick fingerprints and oils.

Removal of CCD image sensor

1. Remove two screws ⑦ from the CCD board and remove the CCD board (CCD image sensor is removed with the CCD board).

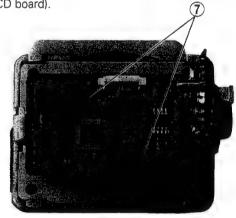


Fig. 1-8

2. Pull the CCD image sensor out of the CCD board.

Installation of new CCD image sensor

- 1. When installing a new CCD image sensor, pay attention to its orientation.
- Install the CCD image sensor as its dent is located in the right side (back focus adjusting screw is located in the left side).

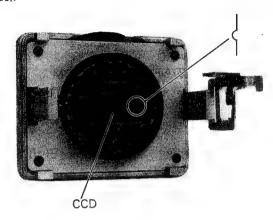


Fig. 1-9

- Adjust the position of the image sensor's plate while setting it on the CCD board.
- Reinstall the CCD board with careful attention to the IC socket and pins.

1.7 ATTENTIONAL PERFORMANCE

The following phenomena, that may sometimes occur in operation, are not faulty but resulting from the specifications.

- 1. The AUTO WHITE BALANCE does not work when the image is unicolor.
- 2. The design white clip level of this camera is 120%.
- 3. There may be vertical stripes appearing on borders between different colors.
- 4. Transversal noise may appear when the camera is used at considerably low temperature.
- 5. The adjustment procedure of the manual white balance adjustment VR (WHT BAL ADJ VR) is different from that of previous cameras (TK-1070, etc.).
 - Turning the WHT BAL ADJ VR toward the R side makes the picture color bluish, while turning it toward the B side makes the color reddish.
- If a metal screwdriver or the like touches the WHT BAL ADJ VR, noise may appear in the picture.
- Manual white balance adjustment for this camera may slightly come off the most precise position since it is performed only with the WHT BAL ADJ VR.

SECTION 2 ELECTRICAL ADJUSTMENT

This camera has no need of adjustment with variable resistors for respective settings thanks to the function of the EVR (Electric Variable Resistor) incorporated in it. To change the setting of adjustment items, use a personal computer with the adjustment software to change the set value of the EVR for each adjustment item as well as to store the changed data into the memory of the camera.

If any of the following parts is replaced or the camera needs to adjust settings of itself such as auto white balance, etc., it requires adjustment of the EVR with a personal computer.

CCD BOARD

IC101 MN3716MFE (NTSC) CCD IMAGE SENSOR

MN3726MFE (PAL) CCD IMAGE SENSOR

PROCESS BOARD

IC208 S-2927AIF10G

E²PROM

2.1 EQUIPMENT NECESSARY FOR ADJUSTMENT

Oscilloscope

: Available for 100 MHz or more band

and already calibrated

Vectorscope

- Digital voltmenter: Input impedance of 10 M Ω or more
- · Color video monitor

2.2 INSTRUMENTS REQUIRED EXCLUSIVELY FOR ADJUSTMENT WITH PERSONAL COMPUTER

Program disk	Standard lens for adjustment
(For IBM-PC)	
PLSC1123	HZ-H8061
Interface cable	Conversion cable
(For IBM-PC)	
YTU93063	YTU94066
Infinity adjustment lens	Color bar chart
YTU92001B	YTU92001-051
Gray scale chart	Test chart (Portrait)
YTU92001-052	YTU92001-054
Light box	Color temp. conversion filter
YTU93072	KODAK Wratten gelatin filter No. 80B + No. 82B (or equivalent) No. 80B + CC10B + CC05R

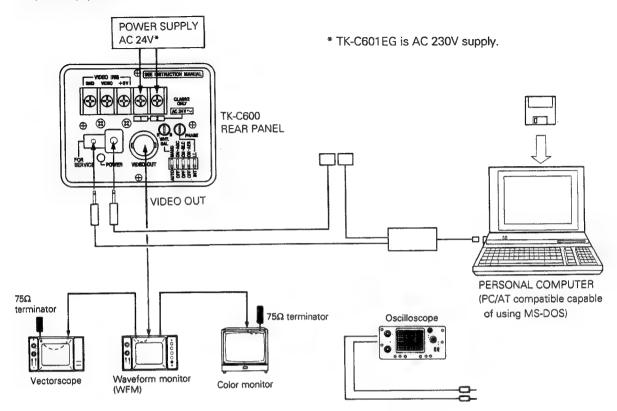
Note:Parts that is marked with asterisk (*) are able to get at your side.

2.3 ADJUSTMENT ITEMS OF ADJUSTMENT SOFT-WARE

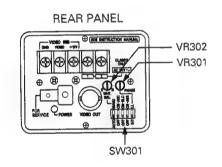
• • • • • • • • • • • • • • • • • • • •	-10 100
1	OFD
2	Y SETUP
3	Y GAIN
4	NORMAL Y LEVEL
5	COLOR DIFFERENCE BALANCE
6	CARRIER DOTT BALANCE
7	CARRIER BALANCE
8	BURST PHASE (Only PAL model)
9	SC PHASE (Only PAL model)
10	OFFSET DATA
11	INDOOR/OUTDOOR DATA
12	R, B GAIN
13	COLOR DIFFERENCE GAIN
14	COLOR DIFFERENCE MATRIX
15	WHITE LEVEL

2.4 GENERAL SETUP

Hook up the equipment as shown in the figure.



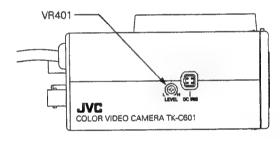
2.5 SWITCH SETTING FOR ADJUSTMENT





WHT. BAL	AUTO
AGC	OFF
BLC	OFF
AES	OFF
LL/INT	INT

 VR301, VR302, VR401 — Mechanical center position.



2.6 PROGRAM EXECUTE

- 1. Install the MS-DOS MOUSE. COM. (This program can also be used without Mouse.)
- 2. At the MS-DOS command line, type as follows. A>TK-C600 {/N or /P} [B/W] [/COM2] <Enter>

/N or /P Set type of TV system. The program cannot start without specified.

N: NTSC P: PAL

/BW Set if the monitor is Black & white.

/COM2 Set if a serial mouse is connected to the COM1 serial port to allow camera data communicate via COM2. If not specified, COM1 becomes the main communication port automatically.

At the "Welcome" message, click <OK> or press [EN-TER] key.

Follow the message appearing on the display to prepare and execute each setting.

SECTION 3 CHARTS AND DIAGRAMS

■ SCHEMATIC DIAGRAM NOTES

Schematic safety precaution

A Parts are safety related parts.

When replacing them, be sure to use the specified parts.

Voltage and waveform measurements.

Voltage: Measured with digital voltmeter in DC range;

iris closed.

Waveform: Color bars illuminated at more than 4000 lux

at 3200 K lighting.

● Terminal logic

Top bar of terminal name show input or output logic. Top bar shows, the control circuit become active at negative (low) logic input for example.

• Resistor • Capacitor • Coil NO UNITS $\ [\Omega]$ NO UNITS $: [\mu F]$ $\mu/\mu H : [\mu H]$ K $: [k\Omega]$ P : [pF] m : [mH] M $: [M\Omega]$

■ REPLACING SUBMINIATURE "CHIP" PARTS

- Some resistors, shorting jumpers (0 Ω resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Soldering cautions:
 - 1) Do not apply heat for more than 3 seconds.
 - 2) Avoid using a rubbing stroke when soldering.
 - 3) Discard removed chips; do not reuse them.
 - 4) Supplementary cementing is not required.
 - 5) Use care not to scratch or otherwise damage the chips.

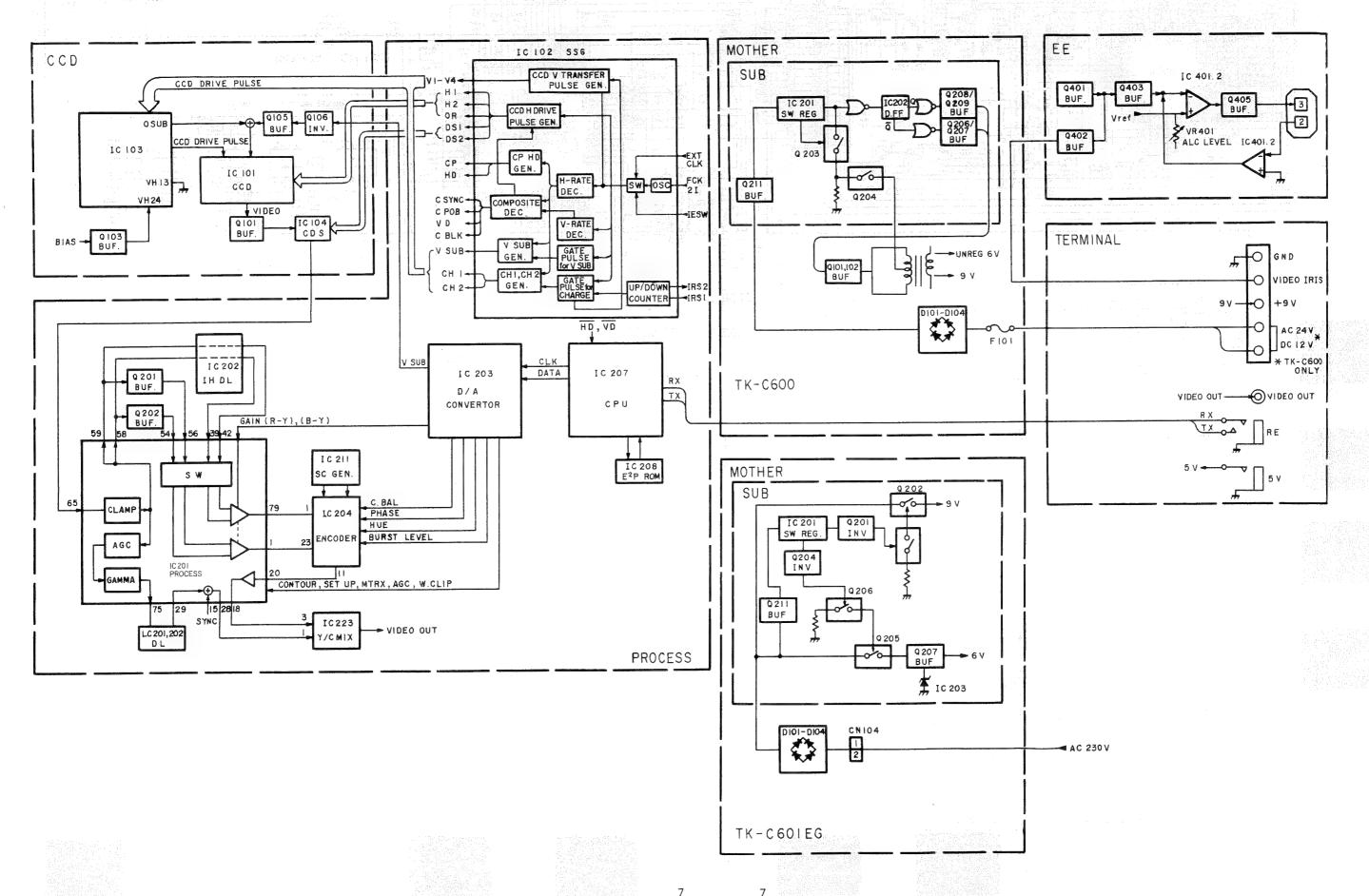
• On Replacing Chip Parts

Use a soldering iron (rated temp.: 260-300°C, 17 W) which is sharp in the tip and high in the insulation.

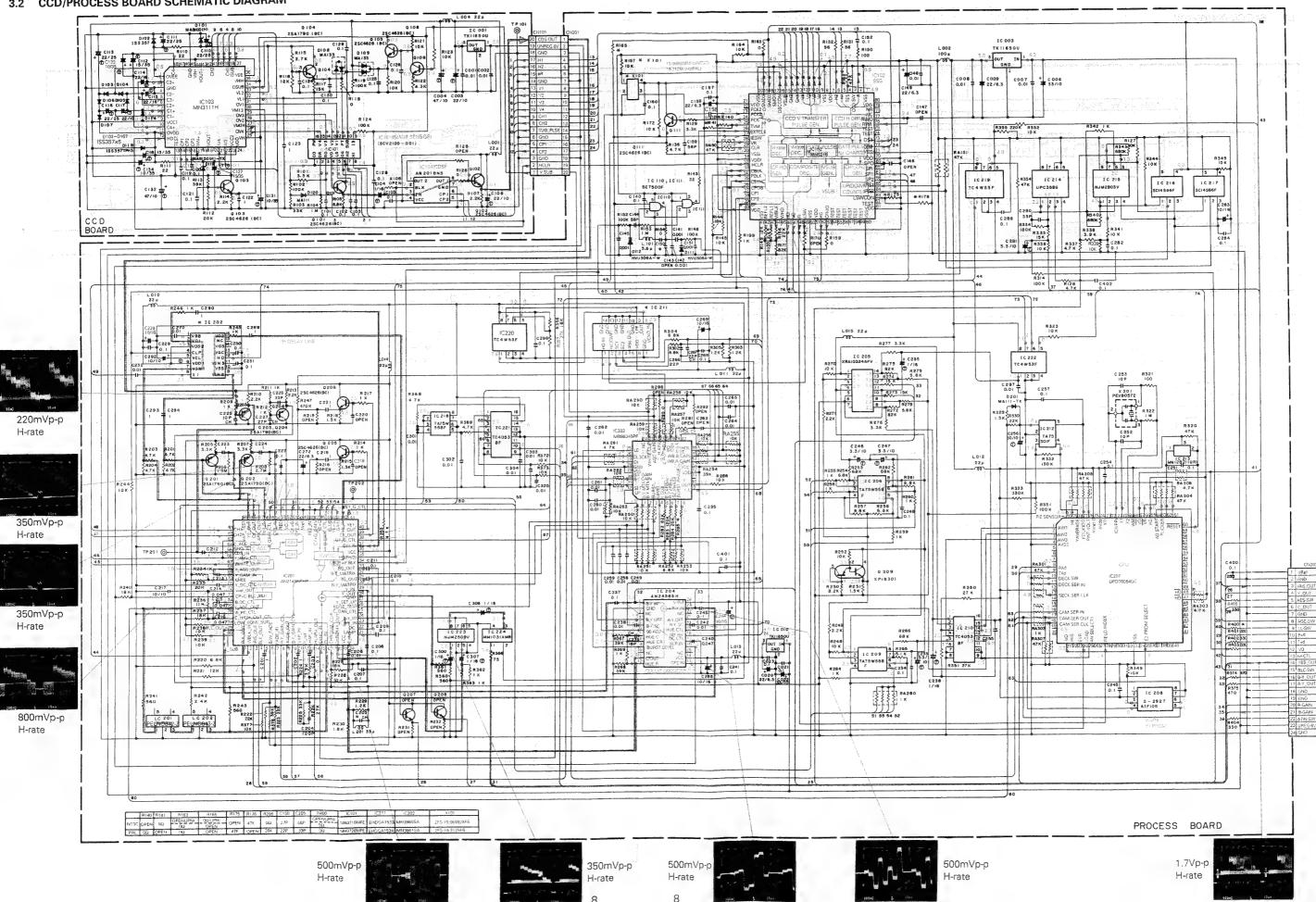
Notes:

- There are many mini flat ICs used in the camera. When unsolder them and cutting off IC pins to remove them, do the work most carefully not to get the print pattern of the board damaged nor come off.
- When soldering is tried twice or more for the same chip parts, carefully wipe flux dusts off with cloth moistened with absolute alcohol, otherwise the IC may malfunction owing to remaining dusts.

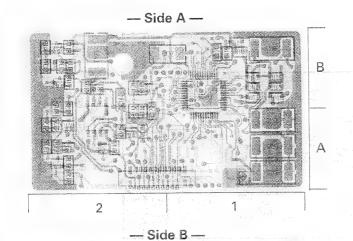
3.1 BLOCK DIAGRAM



3.2 CCD/PROCESS BOARD SCHEMATIC DIAGRAM



3.3 CCD CIRCUIT BOARD



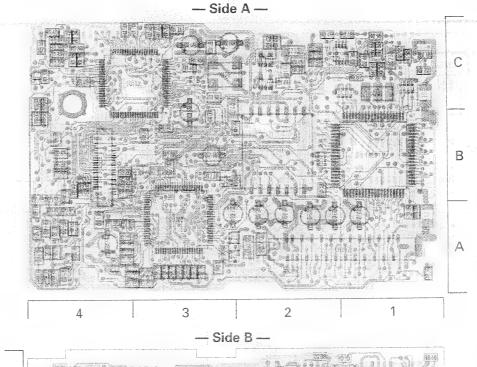
A 2

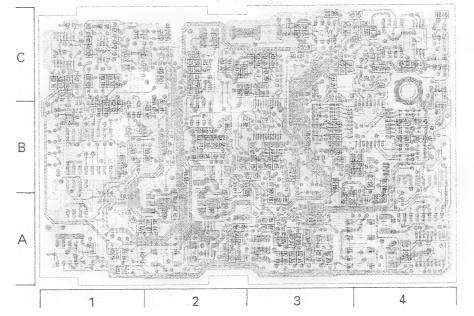
ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.



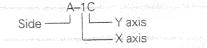
3.4 PROCESS CIRCUIT BOARD



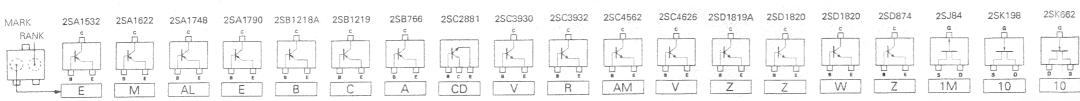


ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.



		A10	NEEDER PARK				
IG3 IG10 IG102 IG110 IG111 IG201 IG203 IG204 IG205 IG206 IG207 IG209 IG210 IG211 IG212 IG213 IG214 IG215 IG216 IG216 IG216 IG217 IG216 IG217 IG218 IG219 IG220 IG219 IG220 IG221 IG223 IG223 IG223 IG222	B-2A A-3C A-2C A-3A B-4A B-4B B-1C A-1B B-1A A-1C B-1B B-1B B-1B B-1B B-1B	R222 R223 R224 R225 R226 R227 R228 R230 R231 R232 R233 R234 R235 R236 R237 R238 R240 R241 R242 R243 R244 R245 R247 R248 R248 R248 R248 R248 R248 R248 R248	A-3AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	R355 R356 R356 R357 R360 R361 R362 R368 R368 R368 R372 R373 R374 R375 R376 R377 R400 R401 R402 R403 R404 R405 C6 C7 C8 C9 C20 C21	B-22B A B-22A A C B B-22B A A A A A A A A A A A A A A A A A A	C249 C251 C252 C253 C254 C255 C256 C256 C257 C258 C260 C261 C262 C263 C264 C265 C266 C267 C268 C267 C268 C268 C268 C268 C268 C268 C268 C268	B-3B B-1C B-1C B-1B B-1B B-1B B-3C B-3C B-3C B-3C B-3C B-3C B-3C B-3
Q111 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209	B-3C B-4A B-3B B-4B A-3B B-3A A-3B A-3A B-2C	R251 R252 R253 R254 R255 R256 R257 R258 R259 R260 R261	B-20 B-10 B-10 B-10 A-10 A-10 B-10 A-10 A-10 A-10	C22 C23 C140 C141 C142 C143 C144 C145 C146 C147 C148	A-2A B-2A A-2C B-2C A-2C A-2C A-2C A-4C B-4C A-3C	C289 C290 C292 C293 C294 C295 C296 C297 C300 C301 G302	A-4A B-4A A-4A A-4A B-4B B-2B B-1A A-2A A-4C A-4B
D111 D112 D201 R127 R128	B-2C A-2C B-18 A-4C B-4C	R262 R264 R265 R266 R267 R268 R269	A-1C A-2C A-2C A-2C B-3C B-3C B-3C	C149 C150 C161 C162 C156 C157 C158	A-3C B-2C B-2C A-4B A-3C B-4C A-3B	C303 C304 C305 C306 C307 C400 C401	A-4A A-4B A-4B B-2A A-2A A-3B
R129 R130 R131 R132 R136 R140 R141 R143 R144 R145 R148 R149	B-3C A-4B A-4B B-3C B-3C B-3C B-3C B-3C A-3C A-3C	R270 R271 R272 R273 R274 R275 R276 R277 R278 R279 R282 R283	B-1C B-1C A-1C B-1C B-1C B-1C A-1C A-1C A-1C B-3B B-3B	C159 C160 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210	B-3C B-3A B-3A B-3A B-3A B-3A A-3A B-3A B-3A	C402 L2 L10 L11 L12 L13 L14 L15 L101 L201	B-48 B-30 B-4A B-28 A-1A B-28 B-3A A-10 B-3A
R152 R153 R154 R155	A-2C B-2C B-2C A-3C	R284 R285 R286 R291	B-3B B-3B B-4B	C211 C212 C213 C214	B-3A B-4B A-4A A-4A	TP201 TP202 CN201	B-48 B-20 A-48
R156 R156 R159 R162 R163 R164 R1665 R170 R171 R172 R175 R176 R201 R202 R203 R204 R205 R206 R207 R208 R209 R201 R209 R211 R209 R211 R212 R211 R212 R211 R211 R211 R21	A-3C B-3C B-3C A-3B A-3B A-3C A-3C A-4C A-4C A-4A A-4A A-4A A-4A B-3A A-3B B-3B A-3B B-3B B-3B B-4B B-3B	R292 R295 R302 R303 R304 R304 R321 R322 R323 R329 R330 R331 R332 R333 R334 R335 R336 R337 R338 R339 R334 R335 R336 R337 R338 R334 R335 R336 R337 R338 R339 R339 R339 R339 R339 R339 R339	B-48 B-48 B-28 B-28 B-28 B-28 B-10 A-14 A-14 B-28 B-28 B-28 B-28 B-28 B-28 B-28 B-28	C215 C216 C217 C218 C220 C221 C222 C223 C224 C225 C226 C226 C226 C230 C231 C232 C233 C234 C235 C236 C237 C238 C239 C230 C231 C232 C234 C241 C25	A-4A A-4AA B-3B B-3B A-3B A-3B B-4A A-4B B-4A A-4A A-4A A-1C A-1C A-1B B-3B B-3B B-3B B-3B B-3B B-3B B-3B B	RA150 RA151 RA251 RA251 RA253 RA253 RA254 RA256 RA257 RA260 RA261 RA261	A - 3C - 4C - 3B B B B B B B B B B B B B B B B B B
R215 R216 R217	B-2B B-3B B-3B	R344 R345 R349	A-4C B-4C A-1A	C242 C243 C244	B-38 B-38 A-30	LC201 LC202	B-4A B-4A
R218 R219	A~3B 8-3B	R350 R351	8~1B	C245 C246	A-1A B-2C	X101 X201	A-30 A-10



OTC124EU	XN4509	XPIB301	HZM5.6NB1	HZM12NB2	MA133	MA142A	MA142WA	MA143A	MA147	MA151K	MA152WA	MA335	MA3240(M)	U1GWJ2C49	U1GWJ49
i R	5 5												7	> 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	The second secon



SI

SAFETY PRECAUTION

10THER BOARD

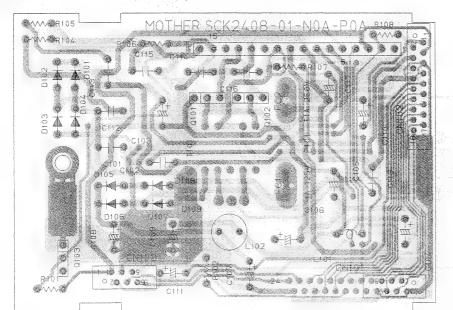
The components identified by the \triangle symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

Rics 1005 0.01 9899 0.19 C114 0.19 P0.1

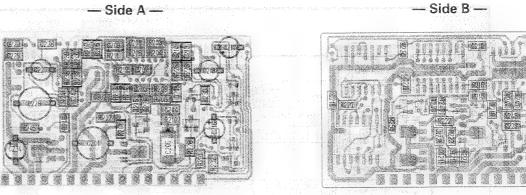
SUB BOARD

C212 - C213

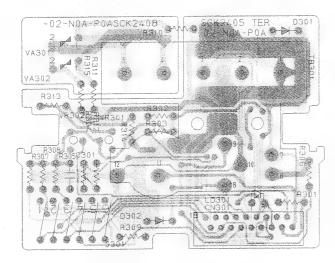
3.6 MOTHER CIRCUIT BOARD (TK-C600)



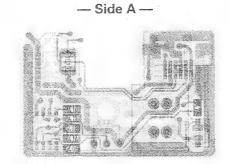
3.8 SUB CIRCUIT BOARD (TK-C600)



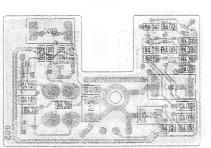
3.7 TER CIRCUIT BOARD (TK-C600)

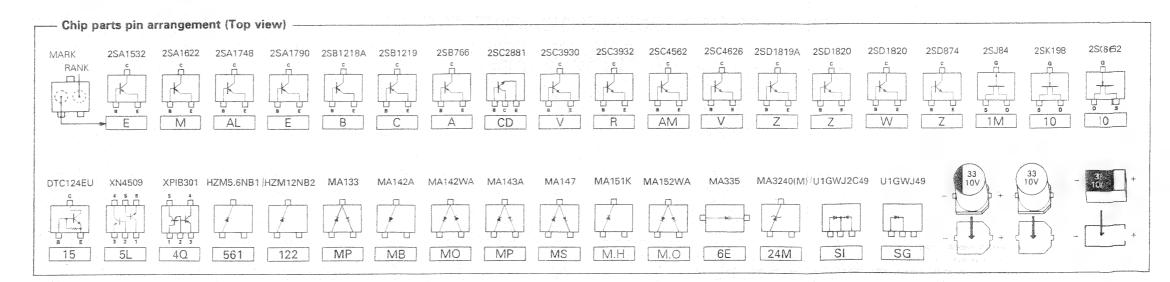


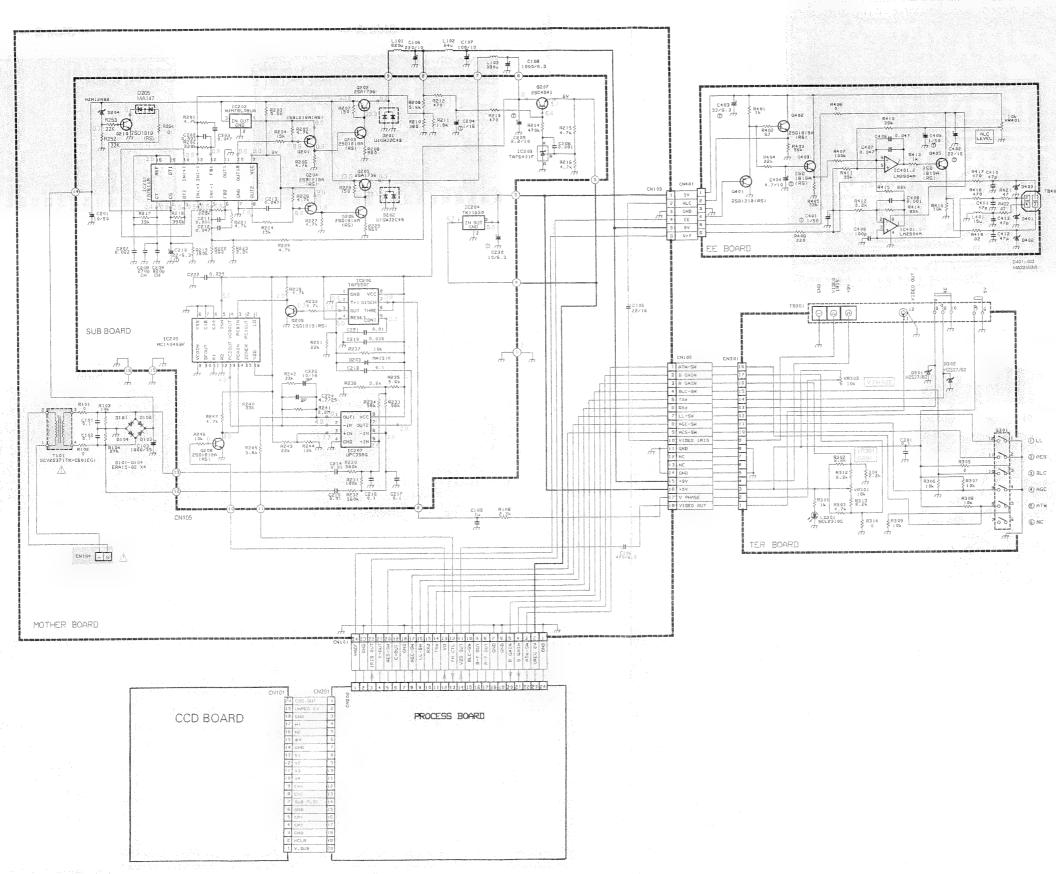
3.9 EE CIRCUIT BOARD



— Side B —







SAFETY PRECAUTION

The components identified by the \triangle symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

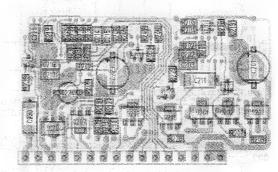
12

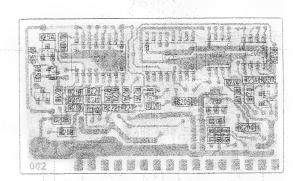
3.11 MOTHER CIRCUIT BOARD (TK-C601EG)

3.13 SUB CIRCUIT BOARD (TK-C601EG)

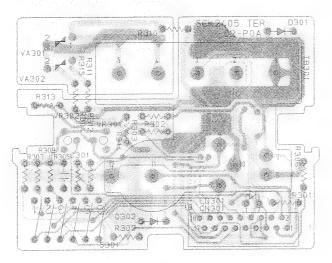








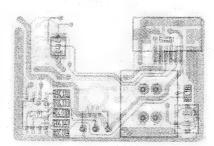
3.12 TER CIRCUIT BOARD (TK-C601EG)



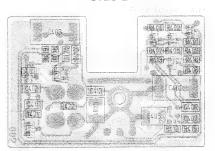
SCK2405-01-P0ACN105

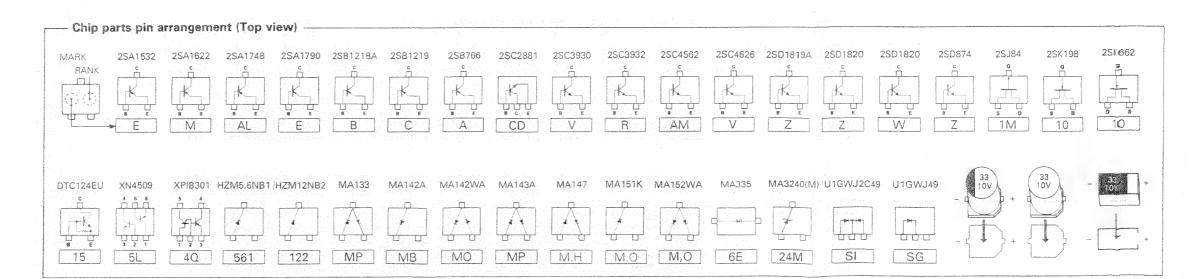
3.14 EE CIRCUIT BOARD (TK-C601EG)

- Side A -



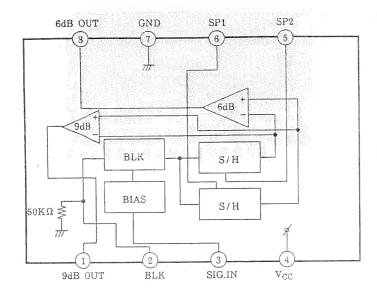
— Side B —



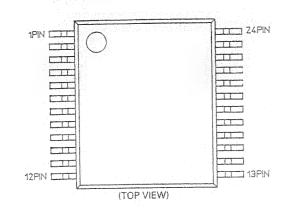


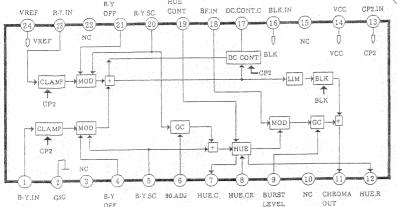
3.15 SCHEMATIC DIAGRAMS OF IC's

AN2018S [MATSUSHITA] (Correlated Double Sampling)

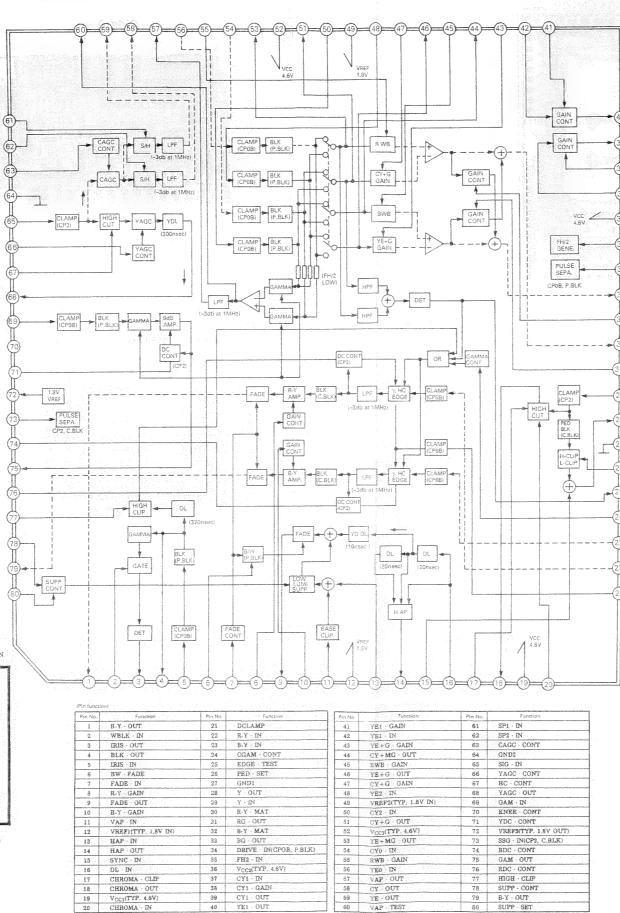


AN2458SH [MATSUSHITA] (Color Encoder)

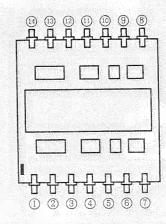


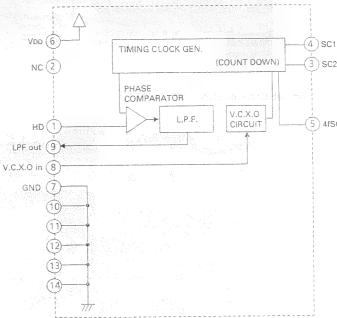


AN2145NFHP [MATSUSHITA] (Signal Processor)

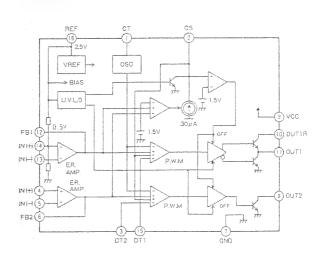


■ EHDGA1533 【MATSUSHITA】 (SC Generator for NTSC)





FA7611M [FUJI ELECTRIC] (Switching Regulator Control)



MB88345PF [FUJITSU] MB88345PF [FUJITSU] MB88345PF [FUJITSU]

Phase

Comparator 2

Controlled

Oscillator

MC74HC02AF [MOTOROLA] (Quad 2-Input NOR Gates)

■ MN12821(QR) [MATSUSHITA] (Voltage Detecter)

2

VDD

REFERENCE REGULATOR

LEVEL

CONVERTOR

REFERENCE REGULATOR 2 VSS

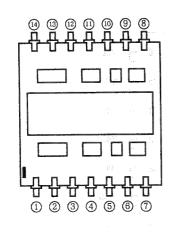
1

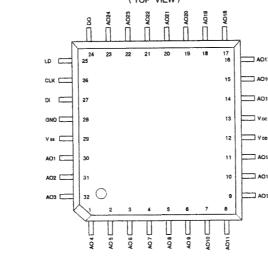
OUT

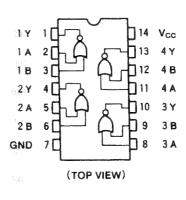
(2) VDD

(1) OUT

3) VSS

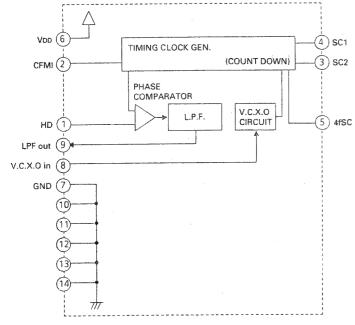


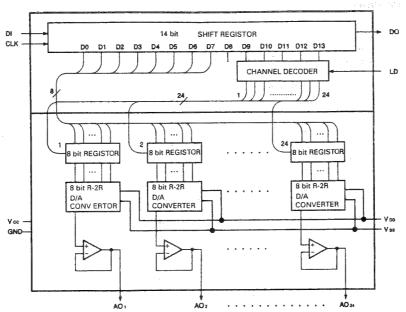




TRUE Table

Α	В	Υ
L	L	Н
L	Н	L
Н	L	L
Н	Н	L





■ NJM2903V [JRC] (Dual Single Supply Comparator)

D, M Type (Top View)



OUTPUT

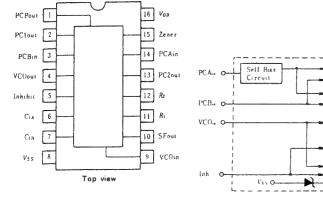
GND

OUTPUT

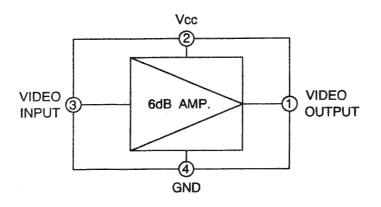
CIRCUIT

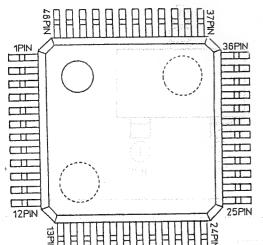
+O NPPUTS

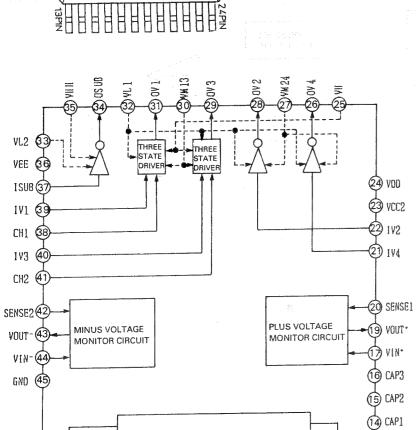
MC14046BF [MOTOROLA] (Phase Locked Loop)



MM1031XMR [MITSUMI] (6dB Amp)







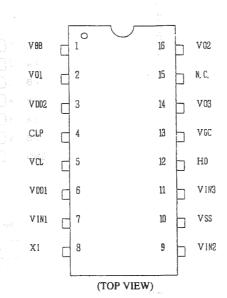
PLUS & MINUS BOOSTER

(12) HO

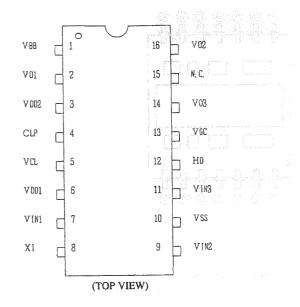
(13) TEST

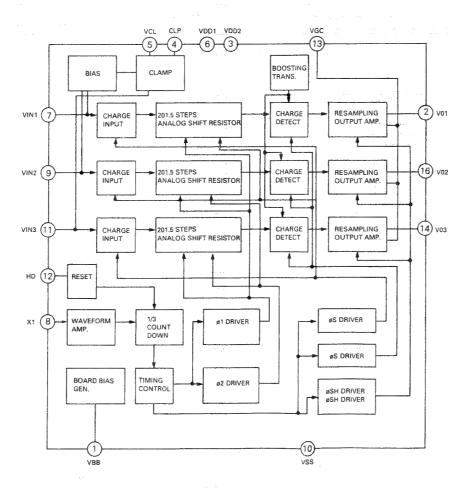
VC C1(

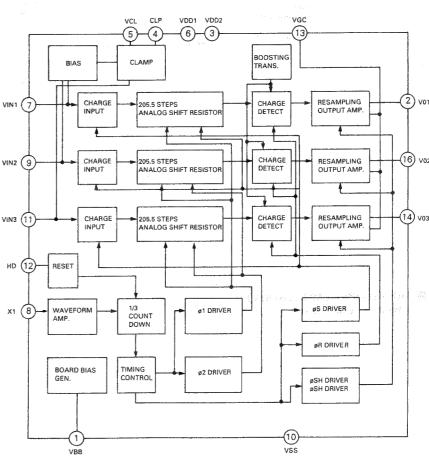
MN3860SA [MATSUSHITA] (CCD Delay Line for NTSC)



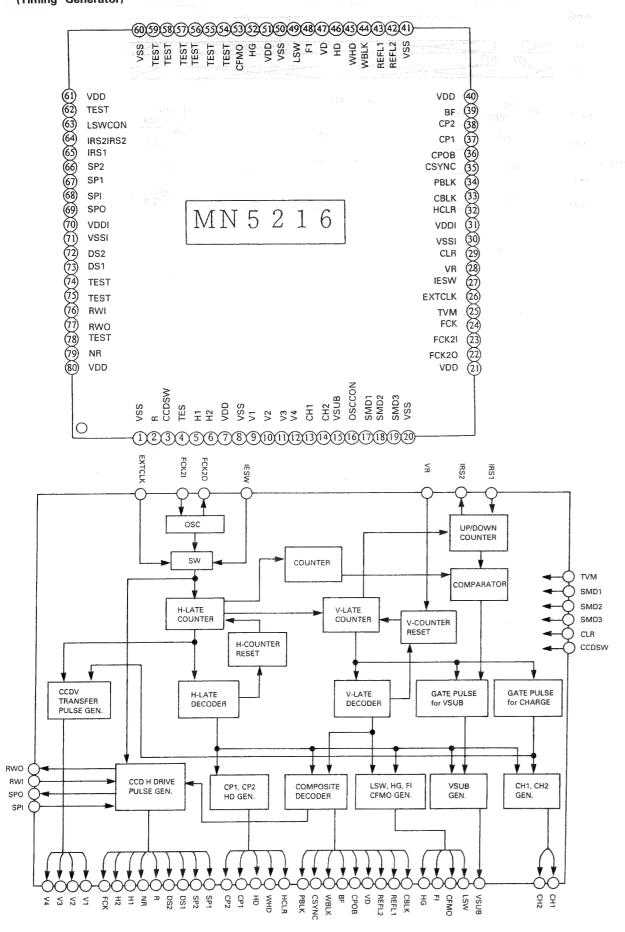








MN5216 [MATSUSHITA] (Timing Generator)



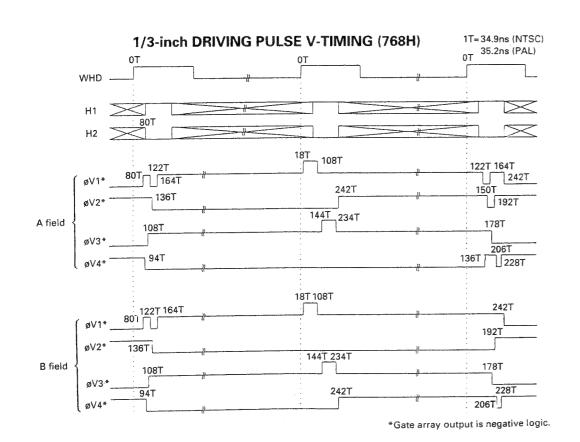
Pin function

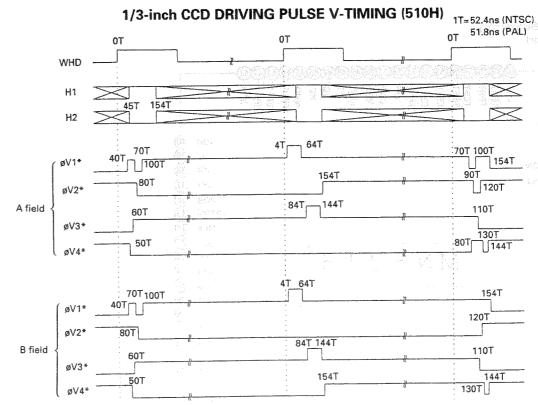
	function		, let se (1 rulineans	No	Symbol	1/0	ASS NOTE TO SERVICE THE SERVICE STATES OF TH
No.	Symbol	1/0	NOTE	No.	VSS	gas to surface	GND
1	VSS	1	GND Ye	41		1	190
2	R	0	øR reset pulse 1		REFL2	0	BLC pulse 2
3	CCDSW	1	Pixels of CCD switching		REFL1	0	BLC pulse 1
4	TES /	2:1/32	Restrict accumulation time (1/16000sec restriction: H)		WBLK	0	Wide blanking pulse
5	H1	0	øH1 transfer pulse		WHD	0	Wide HD pulse
6	H2	0	øH2 transfer pulse	46	HD	0	HD pulse
7	VDD		+ 5V power supply	47	VD	0	VD pulse
8	VSS	1	GND LERGE TRANSPICE TERM		FI	0	Field index
9	V1	0	φV1 transfer pulse	49	LSW	0	Line switch pulse
10	V2	0	φV2 transfer pulse	50	VSS		GND
11	V3	0	øV3 transfer pulse	51	VDD		+5V power supply
12	V4	0	φV4 transfer pulse	52	-	0	Distinguish color line output
13	CH1	0	Charge pulse 1	53	CFMO	0	Color flame output
14	CH2	0	Charge pulse 2	54	TEST	j	Test pin (Usually: OPEN)
15	VSUB	0	VSUB pulse	55	TEST		Test pin (Usually: OPEN)
16	OSCCON	0	INT. OSCCON: Hi – Z EXT. OSCCON: L	56	TEST		Test pin (Usually: OPEN)
17	SMD1	1	Shutter mode 1	57	TEST	1	Test pin (Usually: OPEN)
18	SMD2	1	Shutter mode 2	58	TEST		Test pin (Usually: OPEN)
19	SMD3	1	Shutter mode 3	59	TEST		Test pin (Usually: OPEN)
20	VSS	1	GND	60	VSS		GND
21	VDD	1	+5V power supply	61	VDD		+5V power supply
22	FCK20	0	Crystal oscillation output	62		0	Test pin (Usually: OPEN)
23	FCK2I	1	Crystal oscillation input	63	LSWCON	1	Line switch control input
24	FCK	0	FCK clock output	64	IRS2		Iris control input 2
25	TVM	1	TV mode	65	IRS1	'	Iris control input 1
26	EXTCLK	1	EXT. clock input (Not used: L or OPEN)	66	1	0	Sampling pulse 2
27	IESW	1	INT./EXT, sync switching	67	SP1	0	Sampling pulse 1
28	VR	1	VR reset pulse input	68	SPI		ADJ. SP phase input
29	CLR	1	Clear input (Usually: H or OPEN)	69	SPO	0	ADJ. SP phase output
30	VSSI		GND for INT. cell	70	VDDI	1	Power supply for INT. cell
31	VDDI	George Control	Power supply for INT. cell	71	VSSI	1	GND for INT. cell
32	HCLR	0	φH clear pulse	72	DS2	0	CDS pulse 2
33	CBLK	0	Composite blanking	73	DS1	0	CDS pulse 1
34	PBLK	0	Pre-blanking pulse	74	TEST	0	Test pin (Usually: OPEN)
35	CSYNC	0	Composite sync	75	TEST	0	Test pin (Usually: OPEN)
36	СРОВ	0	OB clamp pulse	76	RWI	1	øR width ADJ. input
37	CP1	0	Clamp pulse 1	77	RWO	0	øR width ADJ. output
38	CP2	0	Clamp pulse 2	78	TEST		Test pin (Usually: OPEN)
39	BF	0	Birst flag pulse	79	NR	0	øR reset pulse 2
40	VDD	1	+5V power supply	80	VDD	1	+5V power supply

17

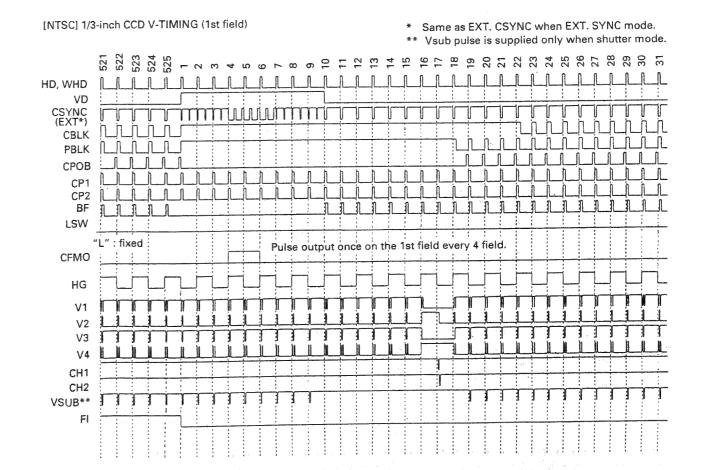
17

1/3-inch CCD DRIVING PULSE H-TIMING (768H) 1/3-inch CCD DRIVING PULSE H-TIMING (510H) • 1T=1/2FCK (NTSC: 34.9ns, PAL: 35.2ns) • 1T=1/2FCK (NTSC: 52.4ns, PAL: 51.8ns) Shown in () are PAL. Shown in () are PAL. 315T (310T) 210T (234T) CBLK CBLK 180T 120T HD 243T (275) 154T (178) Dummy: 6 bit Effective: 771 bit (753 bit CCDout OB: 43-bit Dummy: 6 bit Effective: 512 bit OB: 28-bit OB: 2 bit OB: 2 bit 243T (275) 154T (178) 243T (275) 154T (178) 242.5T (274.5) 153.5T (177.5) 80.5T 45.5T HCLK HCLK 242T 122T 164T 154T 70T 100T 150T 192T 120T 90T V2 108T 110T ٧3 V3 206T 228T 136T 130T 144T 80T V4 214T 158T VSUB



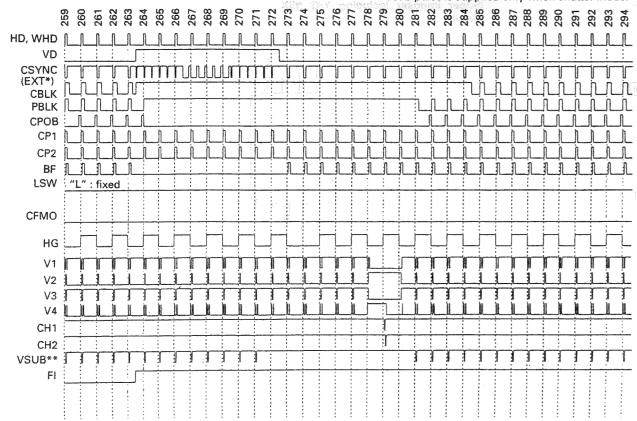


*Gate array output is negative logic.



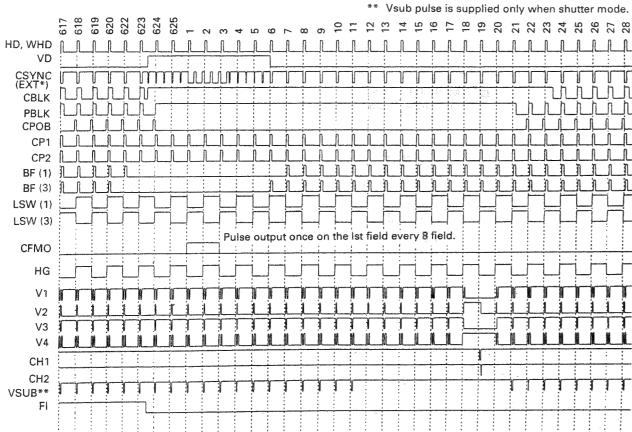
[NTSC] 1/3-inch CCD V-TIMING (2nd field)

- Same as EXT. CSYNC when EXT. SYNC mode.
- ** Vsub pulse is supplied only when shutter mode.



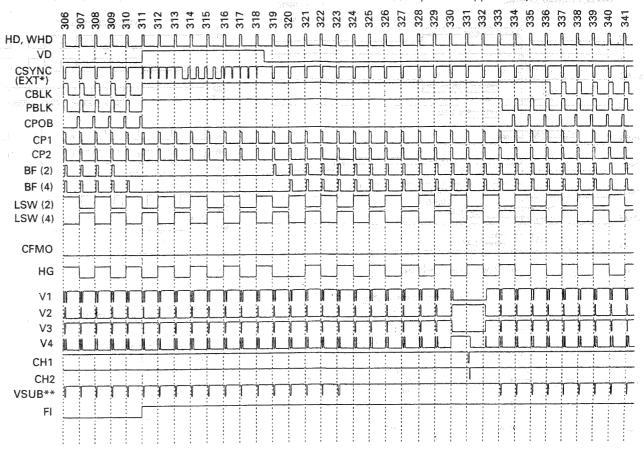
[PAL] 1/3-inch CCD V-TIMING (1st, 3rd field)

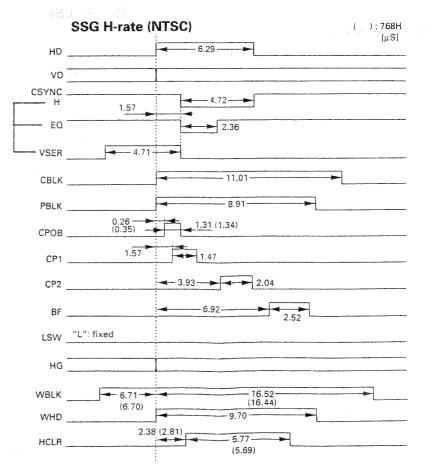
Same as EXT. CSYNC when EXT. SYNC mode.

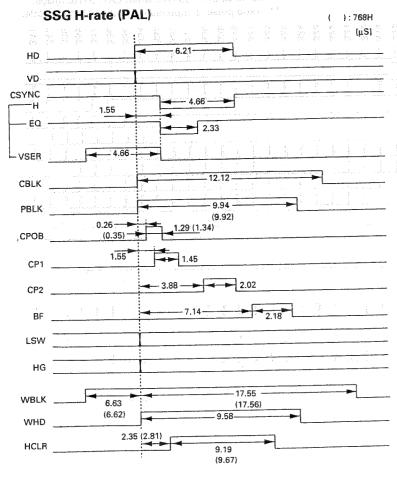


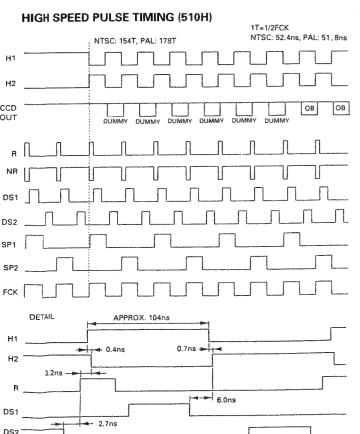
[PAL] 1/3-inch CCD V-TIMING (2nd, 4th field)

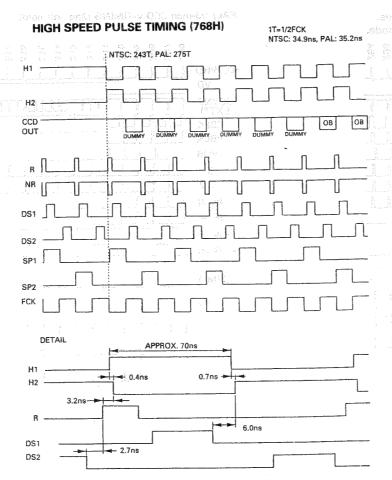
- * Same as EXT. CSYNC when EXT. SYNC mode.
- ** Vsub pulse is supplied only when shutter mode.



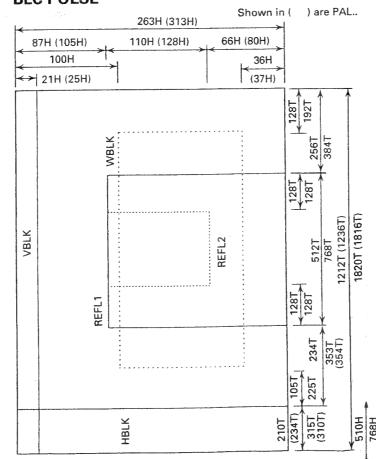




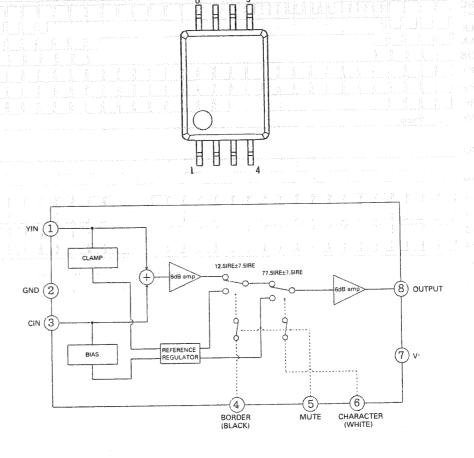




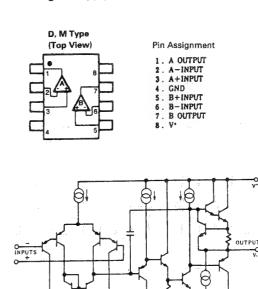
BLC PULSE



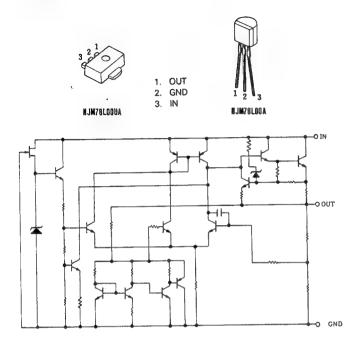
■ NJM2509 [JRC] (Super Imposer including Y/C MIX Circuit)



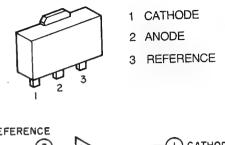
■ NJM2904M 【JRC】 (Dual Single Supply Op.Amp)

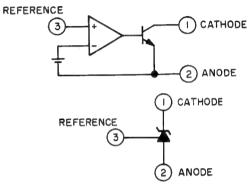


■ NJM78L09UA 【JRC】 (3-Terminal Positive Voltage Regulator (+9V))



■ TA76431F 【TOSHIBA】 (Variable Voltage Shunt Regulator)





S-2927AIF10G [SEIKO] (CMOS 2K-bit Serial EE PROM)

Top view

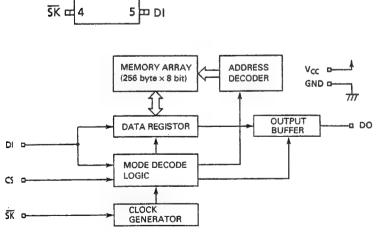
Vcc 中2

CS 中3

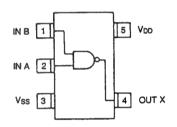
8 TEST

7 I GND

6 PDO

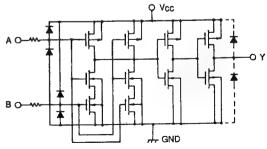


SC7S00F [TOSHIBA] (2-Input NAND Gate)

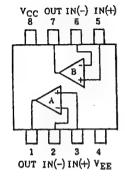


TRUE Table

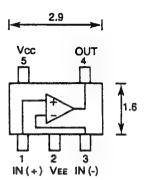
	45.0	
Α	В	Χ
L	L	I
L	Н	Н
Н	L	Н
Н	Н	L

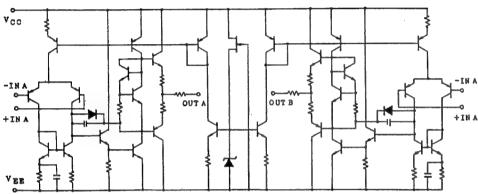


■ TA75W558FU 【TOSHIBA】 (Dual Low-Noise Op.Amp.)

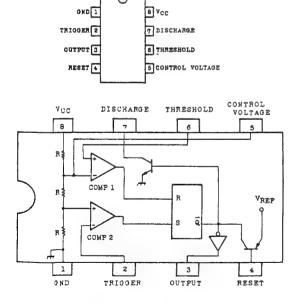


■ TA75S01F 【TOSHIBA】 (Single Op.Amp)

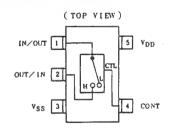




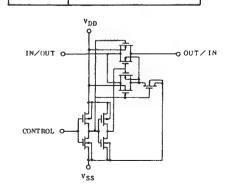
TA7555F [TOSHIBA] (Pulse Generator)



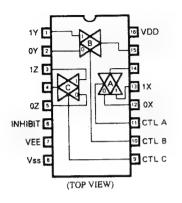
■ SC14S66F [MOTOROLA] (2-Input AND Gate)



CONTROL	IMPEDANCE BETWEEN IN/OUT-OUT/IN *
н	$0.5 \sim 5 \times 10^2 \Omega$
L	> 10 9 Ω



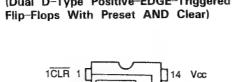
TC4053BF [TOSHIBA] (Triple 2 Channel Analog Multiplexers/ Demultiplexers)



TRUTH TABLE

CO	NTROL	INPU1	rs	"ON" CHANNEL
INHIBIT	С	8	A	4053BP 4053BF
Ĺ	Ĺ	L	L	0X, 0Y, 0Z
L	L	L	н	1X, 0Y,0Z
L	L	Н	L	0X, 1Y, 0Z
L	L	Н	Н	1X, 1Y, 0Z
Ĺ	Н	L	L	0X, 0Y, 1Z
L	Н	L	Н	1X, 0Y, 1Z
L	Н	Н	L	0X, 1Y, 1Z
L	н	Н	Н	1X, 1Y, 1Z
Н	*	*	•	NOTE
* Dor	n't Car	e,		

TC74HC74AF [TOSHIBA] (Dual D-Type Positive-EDGE-Triggered



13 2CLR

712 2D

(Top View)

	TRUE	Table					(T) AC
		INP	UTS		OUT	PUTS	FUNCTION
	CLR	PR	D	СК	Q	Q	FUNCTION
	L,	Н	Х	Х	L	Н	CLEAR
	ુн	L	Х	Х	Н	L	PRESET
	L	L	X	Х	Н	Н	** -
	Н	Н	L	J	L	Н	•
-	Н	Н	Н	1	Н	L	_
	Η,	Н	Х	7	Qn	\overline{Q}_n	NO CHANGE

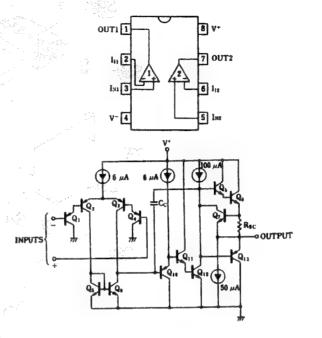
X : Don't care

1Q 6

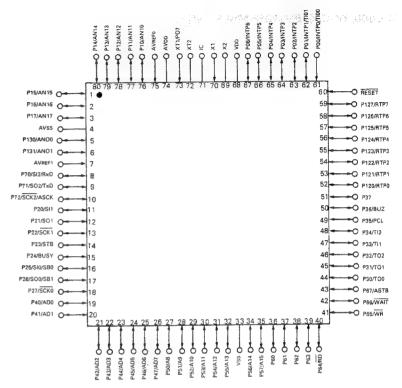
GND 7

■ UPC358G [NEC] (Log.Amp)

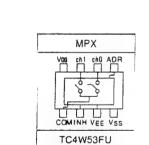




■ UPD78054GC [NEC] (8-bit Single chip Micro Computer)



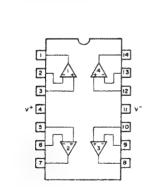




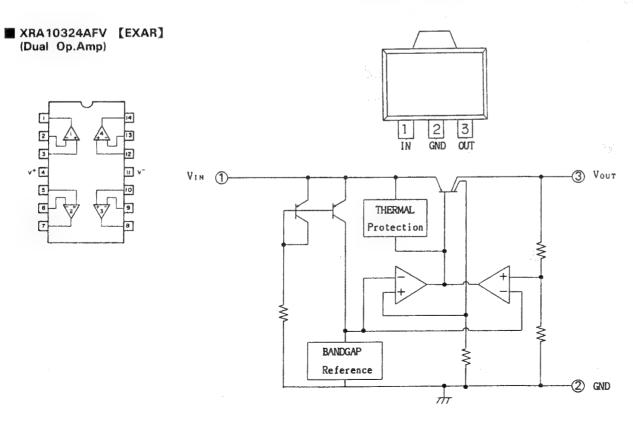
TC4053BP / F

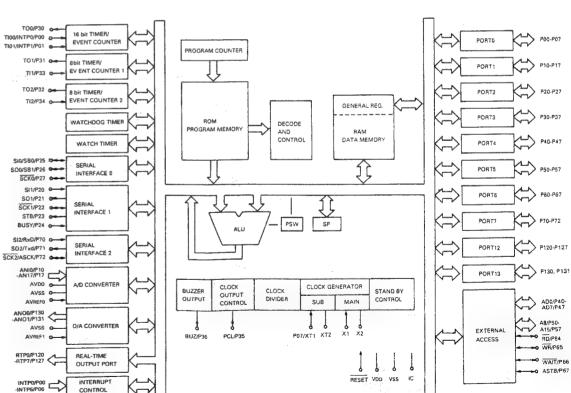
■ TC4W53F [TOSHIBA]

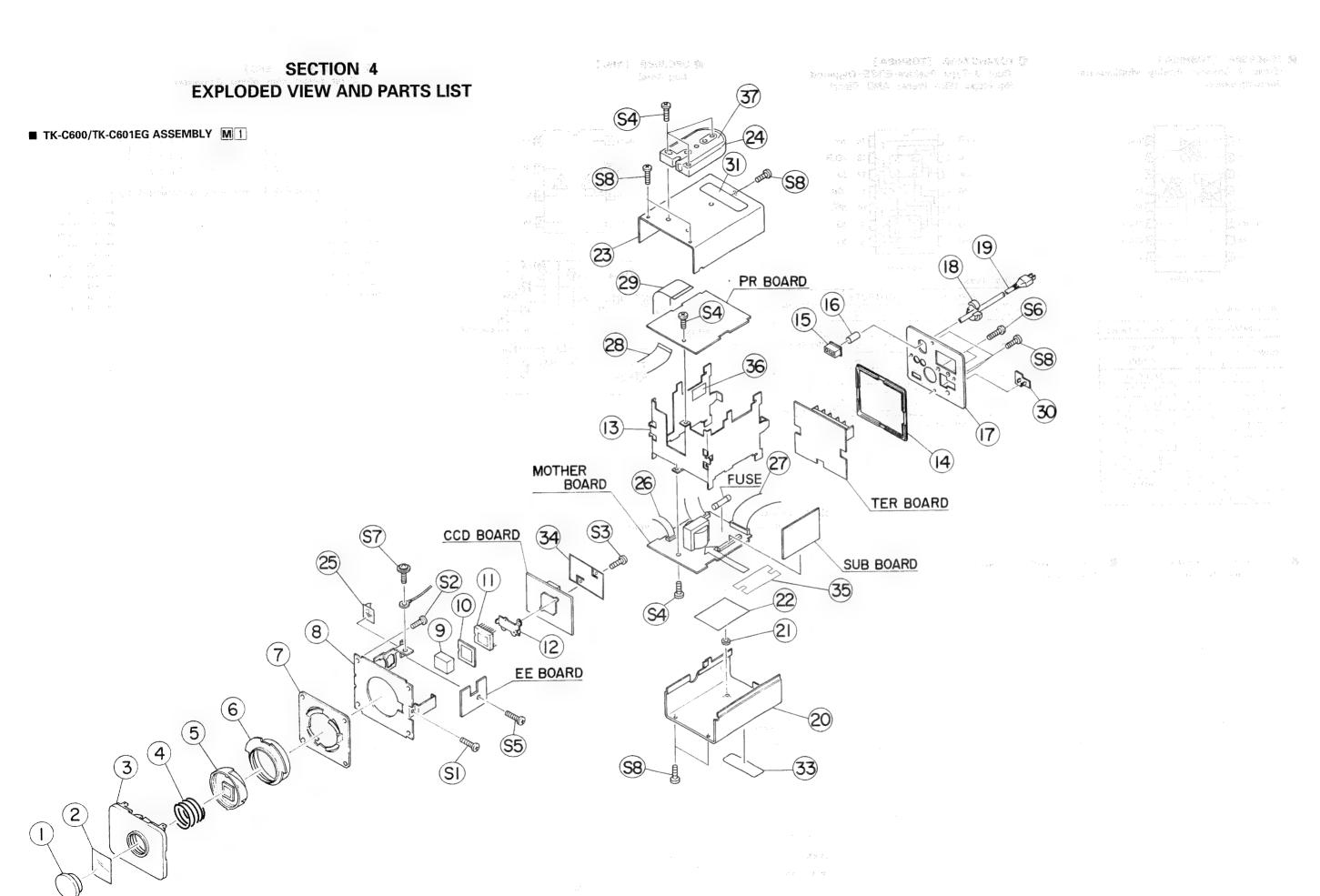
(2-Channel Multiplexer)



(Dual Op.Amp)







• TK-C600/TK-C601EG assembly list M1

Symb	- 1	Part No.	Part Name	Description
No.				•
	1	A38305	CAP	
	2	SC40286-001	SHEET	
	3	SC20489-001	FRONT FRAME	
	4	SC45267-001	SPRING SENSOR BASE	
	5	SC20578-001		
	6	SC31647-001	RING	
	7	SC45335-002	LEAF SPRING	TK-C601EG
	8	SC31649-002 SC31649-001	PLATE PLATE	TK-C600U/E
	8	SCV2511-001	CRYSTAL L.P.F.	110 00000/2
	10	SC45648-001	SENSOR MASK	
				MATSUSHITA(E)
	11	MN3726MFE MN3716MFE	CCD	MATSUSHITA(U)
	11 12	SC45243-001	PLATE	11/1/10001.11/1(0)
	13	SC31838-001	CHASSIS	
	14	SC31650-001	ESCUTCHEON	
	15	SCV1731-003	HOUSING	
	16	QXT3820-035	TUBE	
	17	SC31842-003	REAR PANEL	TK-C601EG
	17	SC31842-002	REAR PANEL	TK-C600E
	17	SC31842-001	REAR PANEL	TK-C600U
	18	QHS6374-162	CORD STOPPER	
	19	SCV2317-001	POWER CORD	TK-C601EG
	20	SC31840-003	BOTTOM COVER	TK-C601EG
	20	SC31840-001	BOTTOM COVER	TK-C600U
	20	SC31840-002	BOTTOM COVER	TK-C600E
-	21	SC45625-001	SPACER	TK-C601EG
	22	SC41702-006	SHEET	TK-C601EG
	23	SC31839-001	UPPER COVER	
	24	CM21394-C0A	TRIPOD BASE	-V 000450
	25	SC45464-001	LABEL	TK-C601EG
_	26	SCV1902-0607K	FLAT CABLE ASSY	
Δ	27	SCV1902-1805K	FFC CABLE	
	28	SCV2531-001	FPC CABLE	
Δ	29	SCV2337-2407BD	FFC CABLE	
	30	SC45690-001		
	31		SERIAL NAME PLATE	TK-C601EG
	33	SS48371-001	LABEL SHIELD PLATE	TR-COOTEG
	34	SC45739-001 SC45746-001	SHEET	TK-C601EG
Δ	35 36	SC45746-001	FUSE CAUTION LABEL	TK-C600
			TRIPOD COVER	
	37 S1	CM32754-C01 SPSP2610N	SCREW	M2.6×10
	S2	YQM30032-36	SCREW	
	S3	SDSF2008M	SCREW	M2×8
	S4	SPSP2605N	SCREW	M2.6×5
	S5	SDSP2004N	SCREW	M2×4
	S6	SDSF2606M	SCREW	M2.6×6
	S7	DPSP4006Z	SCREW	M4×6
	S8	SPSK2040R	SCREW	M2 × 4.0

SECTION 5 ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the \triangle symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- · Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (Ω). K expresses kilo-ohm (1 000 ohms, $k\Omega$). M expresses mega-ohm (106 ohms, $M\Omega$).

In the "Parts Name" column:

COMP. RESISTOR : Composition Resistor U.F. RESISTOR : Non-inflammable Resistor

O.M.F. RESISTOR : Oxide Metalized Film Resistor
FUSI. RESISTOR : Fusible Resistor
M.P. RESISTOR : Metal Plate Resistor
M.G. RESISTOR : Metal Graze Resistor
M.F. RESISTOR : Metal Film Resistor

W.W. RESISTOR : Wire Wound Resistor

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μF) unless otherwise indicated.

P expresses picofarad (10⁻¹² farad, pF).

In the "Parts Name" column:

TRIM. CAPACITOR: Trimmer Capacitor
CER. CAPACITOR: Ceramic Capacitor
E. CAPACITOR: Electrolytic Capacitor
TAN. CAPACITOR: Tantalum Capacitor
MPP CAPACITOR: Metalized Polypropylene

Capacitor

O.F. CAPACITOR : Oil Film Capacitor

MPF CAPACITOR : Metalized Polyfilm Capacitor

F.M. CAPACITOR : Film Mica Capacitor
P.P. CAPACITOR : Polypropylene Capacitor
P.S. CAPACITOR : Polystyrene Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while - (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064	I.C.(M)	JVC	(U)	for U version
	SCV1585-067	I.C.(M)	JVC	(E)	for E version

5.1 CCD BOARD ASSEMBLY LIST 01 SCK2404-01-NOA

SCK2404-01-P0A

				_
	\neg \vdash	31 11		\neg
10111	1 1	- H II	- 11	11 1

Symbol No.	Part No.	Part Name	Description
IC1	TK11650UTL SCV2100-001 MN3111H	I.C.(M) IC SOCKET I.C.(M)	TOKO for IC101 (CCD) MATSUSHITA
IC104	AN2018S	I.C.(M)	MATSUSHITA .
Q101 Q102	2SC4626(BC) 2SC4626(BC)	TRANSISTOR TRANSISTOR	MATSUSHITA MATSUSHITA
Q103	2SC4626(BC)	TRANSISTOR	MATSUSHITA MATSUSHITA
Q104 Q105	2SA1790(BC) 2SC4626(BC)	TRANSISTOR TRANSISTOR	MATSUSHITA
Q106	2SC4626(BC)	TRANSISTOR	MATSUSHITA
D101 D102	MA8100(M) 1SS357	ZENNER DIODE	MATSUSHITA TOSHIBA
D103	1SS357	DIODE	TOSHIBA
D104	1SS357 1SS357	DIODE	TOSHIBA
D106	1SS357	DIODE	TOSHIBA
D107	1SS357 MA133	DIODE	TOSHIBA MATSUSHITA
D109	MA133	DIODE	MATSUSHITA
D114	1SS357	DIODE	TOSHIBA
D118	1SS357 MA8150(H)	DIODE ZENNER DIODE	TOSHIBA MATSUSHITA
D120	MA111	DIODE	MATSUSHITA
R101	NRSA63J-332 NRSA63J-104	M.G.RESISTOR M.G.RESISTOR	3.3K 1/16W 1/16W
R102 R103	NRSA63J-333	M.G.RESISTOR	33K 1/16W
R104	NRSA63J-105 NRSA63J-682	M.G.RESISTOR M.G.RESISTOR	1.0M 1/16W 6.8K 1/16W
R105	NRSA63J-222	M.G.RESISTOR	2.2K 1/16W
R110	NRSA63J-220 NRSA63J-220	M.G.RESISTOR M.G.RESISTOR	22 1/16W 22 1/16W
R112	NRSA63J-203	M.G.RESISTOR	20K 1/16W
R113	NRSA63J-393	M.G.RESISTOR	39K 1/16W
R114	NRSA63J-222 NRSA63J-272	M.G.RESISTOR M.G.RESISTOR	2.2K 1/16W 2.7K 1/16W
R116	NRSA63J-123	M.G.RESISTOR	12K 1/16W
R117 R118	NRSA63J-153 NRSA63J-0R0	M.G.RESISTOR M.G.RESISTOR	15K 1/16W 0 1/16W
R119	NRSA63J-104	M.G.RESISTOR	100K 1/16W
R120 R121	NRSA63J-103 NRSA63J-153	M.G.RESISTOR M.G.RESISTOR	10K 1/16W 15K 1/16W
R122	NRSA63J-432	M.G.RESISTOR	4.3K 1/16W
R123	NRSA63J-103	M.G.RESISTOR	10K 1/16W
R124 R126	NRSA63J-0R0	M.G.RESISTOR M.G.RESISTOR	100K 1/16W 0 1/16W
C1	NCB31HK-103	CER.CAPACITOR	0.010 50V 0.010 50V
C2 C3	NCB31HK-103 NEE51AM-226	CER.CAPACITOR TAN.CAPACITOR	22 10V
C4	NEE51AM-476	TAN.CAPACITOR	47 10V
C101 C102	NCF31CZ-104 NCF31CZ-104	CER.CAPACITOR CER.CAPACITOR	0.10 16V 0.10 16V
C102	NCF31CZ-104	CER.CAPACITOR	0.10 16V
C104 C105	NEE21CM~105 NCF31CZ~104	TAN.CAPACITOR CER.CAPACITOR	1.0 16V 0.10 16V
C 100	140/3/02-104	OLITORI NOTTON	T

Symbol No.	Part No.	Part Name	Descrip	tion
C106	NEE51AM-226	TAN.CAPACITOR	22	10V
C110	NEE51EM-226	TAN,CAPACITOR	22	25V
C111	NEE51EM-226	TAN.CAPACITOR	22	25V
			i	35V
C112	NEE51VM-156	TAN.CAPACITOR	15	
C113	NEE51EM-226	TAN.CAPACITOR	22	25V
C114	NEE51CM-226	TAN.CAPACITOR	22	16V
C115	NEE51CM-226	TAN.CAPACITOR	22	16V
C116	NEE51EM-226	TAN.CAPACITOR	22	25V
C117	NEE51AM-226	TAN.GAPACITOR	22	10V
C118	NEE51VM-156	TAN.CAPACITOR	15	35V
C119	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C120	NCB21EK-104	CER.CAPACITOR	0.10	25V
C121	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C122	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C123	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C124	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C125	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C126	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C127	NEE51VM-156	TAN.CAPACITOR	15	35∨
C127	NCF31CZ-104	CER.CAPACITOR	0.10	16V
		CER.CAPACITOR	0.10	16V
C129	NCF31CZ-104	CEN.CAPACITOR	0.10	101
C130	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C131	NEE51VM-106	TAN.CAPACITOR	10	35V
C132	NEE51AM-476	TAN.CAPACITOR	47	10V
C133	NEE51VM-106	TAN.CAPACITOR	10	35V
C134	NEE51VM-106	TAN, CAPACITOR	10	35V
0154	1122317111 100	17.11.07.11.70.11.01.1		
L1 L4	CELP008-220 CELP008-220	COIL	22μH 22μH	
CN101	SSV1983-020W	CONNECTOR	20-PIN	
		1		
			:	

5.2 PROCESS BOARD ASSEMBLY LIST 02

SCK2404-02-N0A

SCK2404-02-P0A

02

Symbol No.	Part No.	Part Name	Descrip	tion
IC3 IC10 IC102 IC110 IC111 IC201 IC202 IC203 IC204	TK11650UTL TK11650UTL MN5216 SC7S00F SC7S00F AN2145NFHP MN3860SA MN3861SA MB88345PF AN2458SH	I.C.(M)	TOKO TOKO MATSUSHITA MOTOROLA MOTOROLA MATSUSHITA MATSUSHITA MATSUSHITA FUJITSU MATSUSHITA	(U) (E)
IC205 IC206 IC207 IC208 IC209 IC210 IC211 IC212 IC213 IC214 IC215	XRA10324AFV TA75W558F UPD78054GC S-2927AIF10G TA75W558F TC4053BF EHDGA1533 EHDGA1534 TA75S01F MN12821 UPC358G NJM2903V	I.C.(M)	EXAR TOSHIBA NEC SEIKO TOSHIBA TOSHIBA MATSUSHITA MATSUSHITA TOSHIBA MATSUSHITA NEC JRC	(U) (E)
iC216 iC217 iC218 iC219 iC220 iC221 iC222 iC223 iC224	SC14S66F SC14S66F TA75W558F TC4W53F TC4W53F TC4053BF TC4W53F NJM2509V MM1031XMR	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA JRC MITSUMI	
Q111 Q201 Q202 Q203 Q204 Q205 Q206 Q209	2SC4626(BC) 2SA1790(BC) 2SA1790(BC) 2SA1790(BC) 2SA1790(BC) 2SA1790(BC) 2SC4626(BC) 2SC4626(BC) XP1B301	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA	
D111 D112 D201	HVU306A HVU306A MA111	VARI-CAPA DIODE VARI-CAPA DIODE DIODE	HITACHI HITACHI MATSUSHITA	
R127 R128 R129 R130 R131 R132 R136 R140 R141 R143	NRSA63J-103 NRSA63J-472 NRSA63J-332 NRSA63J-101 NRSA63J-560 NRSA63J-560 NRSA63J-472 NRSA63J-0R0 NRSA63J-0R0 NRSA63J-0R0 NRSA63J-0R0 NRSA63J-220	M.G.RESISTOR	10K 4.7K 3.3K 100 56 56 4.7K 0 0	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W(E) 1/16W(U) 1/16W
R144 R145 R148 R149	NRSA63J-183 NRSA63J-103 NRSA63J-104 NRSA63J-123	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	18K 10K 100K 12K	1/16W 1/16W 1/16W 1/16W

Symbol	Dow M-	David No	D	•••••
No.	Part No.	Part Name	Descrip	tion
R152	NRSA63J-104	M.G.RESISTOR	100K	1/16W
R153	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R154	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R155	NRSA63J-222	M.G.RESISTOR	2.2K	1/16W
R156	NRSA63J-223	M.G.RESISTOR	22K	1/16W
R157	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R159	NRSA63J-0R0	M.G.RESISTOR	0	1/16W
R162	NRSA63J-473	M.G.RESISTOR	47K	1/16W
R163	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R164	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R171	NRSA63J-823	M.G.RESISTOR	82K	1/16W
R172	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R175	NRSA63J-473	M.G.RESISTOR	47K	1/16W(E)
R176	NRSA63J-473	M.G.RESISTOR	47K	1/16W(U)
R199	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R201	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
11201	14102003 472	W.G.(ILOIGTON	7.78	171000
R202	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R203	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R204	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R205	NRSA63J-332	M.G.RESISTOR	3.3K	1/16W
R206	NRSA63J-155	M.G.RESISTOR	1.5M	1/16W
R207	NRSA63J-332	M.G.RESISTOR	3.3K	1/16W
R208	NRSA63J-275	M.G.RESISTOR	2.7M	1/16W
R209	NRSA63J~102	M.G.RESISTOR	1.0K	1/16W
R210	NRSA63J-222	M.G.RESISTOR	2.2K	1/16W
R211	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R212	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R213	NRSA63J-222	M.G.RESISTOR	2.2K	1/16W
R214	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R215	NRSA63J-152	M.G.RESISTOR	1.5K	1/16W
R217	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R218	NRSA63J-152	M.G.RESISTOR	1.5K	1/16W
R220	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
R221	NRSA63J-123	M.G.RESISTOR	12K	1/16W
R222	NRSA63J-223	M.G.RESISTOR	22K	1/16W
R223	NRSA63J-223	M.G.RESISTOR	22K	1/16W
R224	NRSA63J-332	M.G.RESISTOR	3.3K	1/16W
R225	NRSA63J-333	M.G.RESISTOR	33K	1/16W
R226	NRSA63J-273	M.G.RESISTOR	27K	1/16W
R227	NRSA63J-183	M.G.RESISTOR	18K	1/16W
R228	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R229	NRSA63J-122	M.G.RESISTOR	1.2K	1/16W
R230	NRSA63J-182	M.G.RESISTOR	1.8K	1/16W
R233	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R234	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R235	NRSA63J-203	M.G.RESISTOR	20K	1/16W
R236	NRSA63J-113	M.G.RESISTOR	11K	1/16W
R237	NRSA63J-183	M.G.RESISTOR	18K	1/16W
R238	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R239	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R240	NRSA63J-183	M.G.RESISTOR	18K	1/16W
R241	NRSA63J-561	M.G.RESISTOR	560	1/16W
R242	NRSA63J-242	M.G.RESISTOR	2.4K	1/16W
R243	NRSA63J-561	M.G.RESISTOR	560	1/16W
R244	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R245	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R246	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R247	NRSA63J-474	M.G.RESISTOR	470K	1/16W
R248	NRSA63J-103	M.G.RESISTOR	10K	1/16W

ymbol No.	Part No.	Part Name	Des	cription
R249	NRSA63J-222	M.G.RESISTOR	2.2K	1/16W
R250	NRSA63J-822	M.G.RESISTOR	8.2K	1/16W
R251	NRSA63J-152	M.G.RESISTOR	1.5K	1/16W
		M.G.RESISTOR	10K	1/16W
R252	NRSA63J-103			1/16W
R253	NRSA63J-683	M.G.RESISTOR	68K	I
R254	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
R255	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R256	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
R257			6.8K	1/16W
R258	NRSA63J-682	M.G.RESISTOR		1/16W
R259	NRSA63J-102	M.G.RESISTOR	1.0K	1
R260	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R261	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
R262	NRSA63J-683	M.G.RESISTOR	68K	1/16W
R264	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R265	NRSA63J-512	M.G.RESISTOR	5.1K	1/16W
R266	NRSA63J-683	M.G.RESISTOR	68K	1/16W
			001	4140141
R267	NRSA63J-393	M.G.RESISTOR	39K	1/16W
R268	NRSA63J-393	M.G.RESISTOR	39K	1/16W
R269	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R270	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R271	NRSA63J-222	M.G.RESISTOR	2.2K	1/16W
R272	NRSA63J-823	M.G.RESISTOR	82K	1/16W
R273	NRSA63J-153	M.G.RESISTOR	15K	1/16W
R274	NRSA63J-153	M.G.RESISTOR	15K	1/16W
		M.G.RESISTOR	82K	1/16W
R275	NRSA63J-823	i i	3.3K	1/16W
R276	NRSA63J-332	M.G.RESISTOR	3.30	171000
R277	NRSA63J-332	M.G.RESISTOR	3.3K	1/16W
R278	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W
R279	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W
		M.G.RESISTOR	82K	1/16W
R282	NRSA63J-823		1	1/16W
R283	NRSA63J-124	M.G.RESISTOR	120K	
R284	NRSA63J-203	M.G.RESISTOR	20K	1/16W
R285	NRSA63J-0R0	M.G.RESISTOR	0	1/16W (U)
	NRSA63J-203	M.G.RESISTOR	20K	1/16W (E)
R286	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R295	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R302	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
11302	14110/4000 002			
R303	NRSA63J-122	M.G.RESISTOR	1.2K	1/16W
R304	NRSA63J-682	M.G.RESISTOR	6.8K	1/16W
R305	NRSA63J-122	M.G.RESISTOR	1.2K	1/16W
R314	NRSA63J-104	M.G.RESISTOR	100K	1/16W
R320	NRSA63J-473	M.G.RESISTOR	47K	1/16W
R321	NRSA63J-101	M.G.RESISTOR	100	1/16W
	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R322		M.G.RESISTOR	10K	1/16W
R323	NRSA63J-103		- 1	1/16W
R329	NRSA63J-152	M.G.RESISTOR	1.5K	
R330	NRSA63J-223	M.G.RESISTOR	22K	1/16W
R331	NRSA63J-104	M.G.RESISTOR	100K	1/16W
R332	NRSA63J-154	M.G.RESISTOR	150K	1/16W
	NRSA63J-334	M.G.RESISTOR	330K	1/16W
R333		1	180K	1/16W
R334	NRSA63J-184	M.G.RESISTOR		1/16W
R335	NRSA63J-153	M.G.RESISTOR	15K	
R336	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R337	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R338	NRSA63J-392	M.G.RESISTOR	3.9K	1/16W
R339	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R340	NRSA63J-684	M.G.RESISTOR	680K	1/16W
			1011	1110141
R341	NRSA63J-103	M.G.RESISTOR	10K	1/16W

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R342	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R343	NRSA63J-684	M.G.RESISTOR	680K	1/16W
R344	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R345	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R349	NRSA63J-103	M.G.RESISTOR	10K	1/16W
		M.G.RESISTOR	27K	1/16W
R350	NRSA63J-273		27K	1/16W
R351	NRSA63J-273	M.G.RESISTOR		
R352	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R354	NRSA63J-473	M.G.RESISTOR	47K	1/16W
R355	NRSA63J-224	M.G.RESISTOR	220K	1/16W
R356	NRSA63J-183	M.G.RESISTOR	18K	1/16W
R357	NRSA63J-273	M.G.RESISTOR	27K	1/16W
R360	NRSA63J-561	M.G.RESISTOR	560	1/16W
R361	NRSA63J-561	M.G.RESISTOR	560	1/16W
R362	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
	NRSA63J-102	M.G.RESISTOR	1.0K	1/16W
R363			75	1/16W
R366	NRSA63J-750	M.G.RESISTOR		
R368	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R369	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
R372	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R373	NRSA63J-103	M.G.RESISTOR	10K	1/16W
R374	NRSA63J-471	M.G.RESISTOR	470	1/16W
R375	NRSA63J-471	M.G.RESISTOR	470	1/16W
R376	NRSA63J-393	M.G.RESISTOR	39K	1/16W
R377	NRSA63J-103	M.G.RESISTOR	10K	1/16W
	1		0	1/16W
R400	NRSA63J-ORO	M.G.RESISTOR	-	1/16V
R401	NRSA63J-331	M.G.RESISTOR	330	
R402	NRSA63J-331	M.G.RESISTOR	330	1/16W
R403	NRSA63J-331	M.G.RESISTOR	330	1/16W
R404	NRSA63J-331	M.G.RESISTOR	330	1/16W
R405	NRSA63J-331	M.G.RESISTOR	330	1/16W
DA 160	NRB024J-473	RESISTOR ARRAY		
RA150				
RA151		RESISTOR ARRAY		
RA250		RESISTOR ARRAY		
RA251		RESISTOR ARRAY		
RA252	NRB024J-682	RESISTOR ARRAY		
RA253	NRB024J-103	RESISTOR ARRAY		
	NRB024J-393	· RESISTOR ARRAY		
RA255		RESISTOR ARRAY		
RA256		RESISTOR ARRAY		
RA257	1	RESISTOR ARRAY		
DAGE	NBB024 1-102	RESISTOR ARRAY		
RA258	1			
RA259	1	RESISTOR ARRAY		
RA260		RESISTOR ARRAY		
RA261	NRB024J-472	RESISTOR ARRAY		
RA262	NRB024J-103	RESISTOR ARRAY		
RA263	NRB024J-103	RESISTOR ARRAY		
RA280	1	RESISTOR ARRAY		
RA301		RESISTOR ARRAY		
RA302		RESISTOR ARRAY		
RA302	- 1	RESISTOR ARRAY		
D400	NDDO441 470	DECICTOR ADDAY		
RA304	1	RESISTOR ARRAY		
RA308		RESISTOR ARRAY		
RA306		RESISTOR ARRAY		
1				

Symbol No.	Part No.	Part Name	Descri	otion
C7	NCB31HK-103	CER.CAPACITOR	0.010	50V
C8	NCB31HK-103	CER.CAPACITOR	0.010	50V
C9	NEA10JM-226	E.CAPACITOR	22	6.3V
C20	NEA10JM-226	E.CAPACITOR	22	6.3V
	NCF31CZ-104	CER.CAPACITOR	0.10	167
C21			33	10V
C22	NEA11AM-336	E.CAPACITOR	1	
C23	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C140	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C141	NCB31HK-102	CER.CAPACITOR	1000P	50V
C142	NCB31HK-102	CER.CAPACITOR	1000P	50V
C144	NCT06CH-560	CER.CAPACITOR	56P	50V
C145	NCB31HK-102	CER.CAPACITOR	1000P	50V
C148	NCB31HK-103	CER.CAPACITOR	0.010	50V
C149	NEA10JM-226	E.CAPACITOR	22	6.3V
C150	NCT06CH-270	CER.CAPACITOR	27P	50V (U)
	NCT06CH-220	CER.CAPACITOR	22P	50V (E)
C151	NCB31HK-102	CER.CAPACITOR	1000P	50V
C152	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C156	NCT06CH-101	CER.CAPACITOR	100P	50V
C150	NCF31CZ-104	CER.CAPACITOR	0.10	16V
(157	NCF3102-104	CEN.CAFACITON	0.10	101
C158	NEA10JM-226	E.CAPACITOR	22	6.3V
C159	NCT06CH-560	CER.CAPACITOR	56P	50V
C160	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C201	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C202	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C203	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C204	NCT06CH-121	CER.CAPACITOR	120P	50V
C205	NCT06CH-560	CER.CAPACITOR	56P	50V (U)
0200	NCT06CH-390	CER.CAPACITOR	39P	50V (E)
C206	NCB31HK-103	CER.CAPACITOR	0.010	50V
C206	NCF31CZ-104	CER.CAPACITOR	0.10	16V
0207	110.0102 107			
C208	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C209	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C210	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C211	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C212	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C213	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C214	NCF31HZ-473	CER.CAPACITOR	0.047	50V
C215	NCF31HZ-473	CER, CAPACITOR	0.047	50V
C216	NCF31HZ-473	CER. CAPACITOR	0.047	50V
C217	NEE51AM-106	TAN.CAPACITOR	10	10V
0010	NOT0107 105	CER CARACITOR	1.0	16V
C219	NCF21CZ-105	CER.CAPACITOR	1.0	
C221	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C222	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C223	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C224	NCF21CZ-105	CER.CAPACITOR	1.0	16V
C225	NCT06CH-100	CER.CAPACITOR	10P	50V
C226	NCT06CH-330	CER.CAPACITOR	33P	50V
C227	NCT06CH-270	CER.CAPACITOR	27P	50V
C228	NEA11CM-106	E.CAPACITOR	10	16V
C229	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C230	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C231	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C232	NCB31HK-103	CER.CAPACITOR	0.010	50V
C232	NEE51AM-335	TAN.CAPACITOR	3.3	10V
C233	NCF31CZ-104	CER.CAPACITOR	0.10	16V
C234	NEE21CM-105	TAN.CAPACITOR	1.0	16V
C236		1	1.0	16V
C236	NEE21CM-105	TAN.CAPACITOR	1	16V
1	NCF31CZ-104	CER.CAPACITOR	0.10	
C238	NCB31HK-103	CÉR.CAPACITOR	0.010	50V

	Symbol No.	Part No.	Part Name	Description	n
		NOTO COLL 155	OCD OASAGITOS	100	F01/
ı	C239	NCT06CH-180	CER.CAPACITOR	18P	50V
1	C240	NCF31HZ-473	CER.CAPACITOR	0.047	50V
ı	C241	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C242	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C243	NCF31CZ-104	CER.CAPACITOR	0.10	16V
ı	C244	NEE51AM-106	TAN.CAPACITOR	10	10V
	C245	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C246	NEE51AM-335	TAN.CAPACITOR	3.3	10V
	C247	NEE51AM-335	TAN.CAPACITOR	3.3	10V
	C248	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C249	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C251	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C252	NCT06CH~100	CER.CAPACITOR	10P	50V
	C253	NCT06CH-100	CER.CAPACITOR	10P	50V
	C254	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C255	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C256	NEE51AM-106	TAN.CAPACITOR	10	10V
	C257	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C258	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C259	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C260	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C261	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C262	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C264	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C265	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C266	NCT06CH-220	CER.CAPACITOR	22P	50V
	C267	NCT06CH-220	CER.CAPACITOR	22P	50V
	C268	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C269	NEA11CM-106	E.CAPACITOR	10	16V
	C270	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C272	NEA10JM-226	E.CAPACITOR	22	6.3V
	0200	NCTOCCH 220	CER.CAPACITOR	33P	50V
	C280 C281	NCT06CH-330 NEE51AM-335	TAN.CAPACITOR	3.3	10V
	C281	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C283	NEA11CM-106	E.CAPACITOR	10	16V
	C284	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C285	NEA11CM-106	E.CAPACITOR	10	16V
	C288	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C289	NCF21CZ-105	CER.CAPACITOR	1.0	16V
	C290	NCF21CZ-105	CER.CAPACITOR	1.0	16V
	C292	NEE51AM-106	TAN.CAPACITOR	10	10V
					4017
	C293	NCF21CZ-105	CER.CAPACITOR	1.0	16V 16V
	C294	NCF21CZ-105	CER.CAPACITOR	0.10	16V
	C295 C296	NCF31CZ-104 NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C290	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C300	NEE21CM-105	TAN.CAPACITOR	1.0	16V
	C301	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C302	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C303	NCB31HK-103	CER.CAPACITOR	0.010	50V
	C304	NCB31HK-103	CER.CAPACITOR	0.010	50V
		Nonating (TT	050 040401755	0.010	EOV
	C305	NCB31HK-103	CER.CAPACITOR	0.010	50V 16V
	C306 C307	NEE21CM-105 NEE21CM-105	TAN.CAPACITOR TAN.CAPACITOR	1.0	16V
	C400	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C400	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	C401	NCF31CZ-104	CER.CAPACITOR	0.10	16V
	0.02			- · · -	
ı		1	1	1	

5.3 MOTHER BOARD ASSEMBLY LIST 03 SCK2408-01-N0A (TK-C600U)

				S	CK	2408-01-P0A	(TK-C600E)	03	
Symbol No.	Part No.	Part Name	Description	Symbo No.	ol	Part No.	Part Name	Description	n
L2	CE40344-101	CHIP INDUCTOR	100μΗ	0101	12	SC2655(Y)	TRANSISTOR	TOSHIBA	i i
L10	CELP008-220	COIL	22µH	0102	1	SC2655(Y)	TRANSISTOR	TOSHIBA	
	CELP008-220	COIL	22µH	0103	- 1	2SC3311A(RS)	TRANSISTOR	MATSUSHITA	i i
L11			22µH						1
L12	CELP008-220	COIL	22μH						
L13	CELP008-220	COIL	1 *	D101		RA15-02	DIODE	KYODO DENKI	
L14	CELP008-220	COIL	22µH	D102	- 1	RA15-02	DIODE	KYODO DENKI	
L15	CELP008-220	COIL	22µH				DIODE	KYODO DENKI	
L101	CELP040-5R6	CHIP P COIL	5.6µH	D103	1	FRA15-02		KYODO DENKI	1
L201	SCV1950-330	PEAKING COIL	33µH	D104	- 1	ERA15-02	DIODE		
				D105	- 1	ERA82-004	DIODE	FUJIELECTRIC	
				D106	1	ERA82-004	DIODE	FUJIELECTRIC	
LC201	PELN0842-Z	CHIP L.P.F	3.58MHz	D107	7 E	ERA82-004	DIODE	FUJIELECTRIC	1
LC202	PELN0843-Z	DELAY LINE		D108	3 E	ERA82-004	DIODE	FUJIELECTRIC	
20202	1 22/100 /0 2			D109	9 5	5GWJ2C48C	DIODE	TOSHIBA	
X101	2FS-19.069928FB	CRYSTAL	19.069928MHz (U)						
1	2FS-19.3125FB	CRYSTAL	19.3125MHz (E)	R101	(QRD161J-472	CARBON RESISTOR	4.7K	1/6W
X201	PEVB0572	CRYSTAL	5MHz	R102	2 (QRD161J-103	CARBON RESISTOR	10K	1/6W
/				R104	4 (QRD161J-564	CARBON RESISTOR	560K	1/6W
Ì				R105	5 (QRD161J-564	CARBON RESISTOR	560K	1/6W
011001	CCV/1002 020W	CONNECTOR	20-PIN	R106		QRD161J-104	CARBON RESISTOR	100K	1/6W
1	SSV1983-020W		24-PIN	R10		QRD161J-0R0	CARBON RESISTOR	0	1/6W
CN202	SCV2477-024	CONNECTOR	Z4-PIN	R108	- 1	QRD161J-222	CARBON RESISTOR	2.2K	1/6W
				RIUG	,	QND1013-222	CARBON NESIGTOR	2.21	,,,,,,
TP201		TEST POINT		C10	,	QFN41HJ-103	MYLAR CAPACITOR	0.010	50V
TP202	SCV1880-001	TEST POINT			i		MYLAR CAPACITOR	0.010	50V
			1	C10:	- 1	QFN41HJ-103		470	63V
				C10:	1	QEHC1HM-477	E.CAPACITOR	1	10V
				C10	- 1	QEHC1AM-108	E.CAPACITOR	1000	
				C10	5	QEX41CM-156	E.CAPACITOR	15	16V
				C10	6	QETA1AM-107	E.CAPACITOR	100	10V
				C10	7	QEX41AM-106	E.CAPACITOR	10	10V
İ				C10	8	QETA1AM-107	E.CAPACITOR	100	10V
				C10	9	QETA1AM-107	E.CAPACITOR	100	10V
				C11	l l	QETA0JM-477	E.CAPACITOR	470	6.3V
				C11	1	QER41CM-226	E.CAPACITOR	22	16V
				C11	2	QFN41HJ-103	MYLAR CAPACITOR	0.010	50V
				C11		QFN41HJ-103	MYLAR CAPACITOR	0.010	50V
1				C11	_	QCZ0206-104	CER.CAPACITOR	0.10	
				C11	- 1	QCZ0206-104	CER.CAPACITOR	0.10	
				1	-	QFLC1HJ-473	MYLAR CAPACITOR	0.047	50V
				C11	- 1			1	16V
1				C11	i	QER41CM-476	E.CAPACITOR	47	50V
				C11	9	QFV41HJ-105	MYLAR CAPACITOR	1.0	504
						B0700000 004	COIL	390µH	
				L10	- 1	PGZ00828-391 SSV1606-001	COIL PEAKING COIL	64μH	
				L10	4	33 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PEAKING COIL	04411	
				CNI	01	SCV2446~024	FFC CONNECTOR	24-PIN	
					- 1		CONNECTOR	18-PIN	
				1 1		SCV2446-018			
		1				SCV2446-006	CONNECTOR	6-PIN	
				CN1	05	SCV2598-001	IC SOCKET	16-PIN	
						00114074 000	E1102 0115		
				A FC1 A FC2	- 1	SCV1271-003 SCV1271-003	FUSE CLIP		
				_ T10)1	SCV2540-001	SWITCH TRANS		
						-			

5.4 MOTHER BOARD ASSEMBLY LIST 04 SCK2405-01-POA (TK-C601EG)

5.5 SUB BOARD ASSEMBLY PARTS LIST 0.5 SCK2409-02-00A (TK-C600) 0.5

sc	K2405-01-P0A	04	
Symbol No.	Part No.	Part Name	Description
D101 D102 D103 D104	ERA15-02 ERA15-02 ERA15-02 ERA15-02	DIODE DIODE DIODE DIODE	KYODO DENKI KYODO DENKI KYODO DENKI KYODO DENKI
R101 R102 R103 R104 R108	ORD161J-ORO ORD161J-ORO ORD161J-103 ORD161J-273 ORD161J-222	CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR	0 1/6W 0 1/6W 10K 1/6W 27K 1/6W 2.2K 1/6W
C101 C102 C103 C104 C105 C106 C107 C108 C109	QCZ0206-104 QCZ0206-104 QEHA1VM-108 QETA0JM-477 QEHC1CM-226 QEHC1AM-227 QEHC1AM-107 QETA0JM-108 QFV41HJ-105	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR MYLAR CAPACITOR	0.10 0.10 1000 35V 470 6.3V 22 16V 220 10V 100 10V 1000 6.3V 1.0 50V
L101 L102 L103	SCV2244-821 SSV1606-001 PGZ00828-391	COIL PEAKING COIL COIL	820μH 64μH 390μH
CN101 CN102 CN103 CN104 CN105	SCV2446-024 SCV2446-018 SCV2446-006 SCV1752-002 SCV2598-001	FFC CONNECTOR CONNECTOR CONNECTOR CONNECTOR IC SOCKET	24-PIN 18-PIN 6-PIN 2-PIN 16-PIN
<u>∧</u> T101	SCV2537-001	POWER TRANS	

Symbol No.	Part No.	Part Name	Description
IC201	FA7611M	1.C.(M)	FUJI ELECTRIC
IC202	TC74HC74AF	I.C.(M)	TOSHIBA
IC203	MC74HC02AF	I.C.(M)	MOTOROLA
IC204	MC14046BF	1.C.(M)	MOTOROLA
IC205	TA7555F	1.C.(M)	TOSHIBA
IC206	UPC358G	I.C.(M)	NEC
IC209	TK11650U	I.C.(M)	токо
0201	2SC2881(Y)	TRANSISTOR	TOSHIBA
0202	2SA1736	TRANSISTOR	TOSHIBA
Q203	2SB1218A(RS)	TRANSISTOR	MATSUSHITA
0204	2SC2881(Y)	TRANSISTOR	TOSHIBA
0205	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
Q206	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
Q207	2SB1218A(RS)	TRANSISTOR	MATSUSHITA
Q208	2SB1218A(RS)	TRANSISTOR	MATSUSHITA
0209	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
Q210	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
Q211	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
D201	HZM5.6NB1	ZENNER DIODE	HITACHI
D202	U1GWJ49	DIODE	TOSHIBA
D203	MA152WA	DIODE	MATSUSHITA
D204	HZM5.6NB1	ZENNER DIODE	HITACHI
D205	MA152WA	DIODE	MATSUSHITA
D207	MA151K	DIODE	MATSUSHITA
Boos 1	NECAGA L 222	AA C DECICEOD	224 1(10)4/
R201	NRSA02J-333	M.G.RESISTOR	33K 1/10W
R202	NRSA02J-333 NRSA02J-182	M.G.RESISTOR M.G.RESISTOR	33K 1/10W 1.8K 1/10W
R203 R204	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R205	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R206	NRSA02J-123	M.G.RESISTOR	12K 1/10W
R207	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W
R208	NRSA02J-393	M.G.RESISTOR	39K 1/10W
R209	NRSA02J-394	M.G.RESISTOR	390K 1/10W
R210	NRSA02J-184	M.G.RESISTOR	180K 1/10W
R211	NRSA02J-224	M.G.RESISTOR	220K 1/10W
R212	NRSA02J-682 NRSA02J-471	M.G.RESISTOR	6.8K 1/10W 1/10W
R213	1	M.G.RESISTOR M.G.RESISTOR	3.3K 1/10W
R214 R215	NRSA02J-332 NRSA02J-562	M.G.RESISTOR	5.6K 1/10W
R216	NRSA02J-562	M.G.RESISTOR	15K 1/10W
R217	NRSA02J-153	M.G.RESISTOR	4.7K 1/10W
R218	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R219	NRSA02J-472	M.G.RESISTOR	470 1/10W
R220	NRSA02J-471	M.G.RESISTOR	470 1/10W
D221	NIDSAGS L 331	M C DECISTOR	220 1/10/4
R221	NRSA02J-331 NRSA02J-681	M.G.RESISTOR	330 1/10W 680 1/10W
R222		M.G.RESISTOR	
R223	NRSA02J-681	M.G.RESISTOR	
R224	NRSA02J-0R0	M.G.RESISTOR	0 1/10W 2.2K 1/10W
R225	NRSA02J-222	M.G.RESISTOR	
R226	NRSA02J-472	M.G.RESISTOR	
R227	NRSA02J-103 NRSA02J-822	M.G.RESISTOR	10K 1/10W 8.2K 1/10W
R228 R229	NRSA02J-822 NRSA02J-181	M.G.RESISTOR M.G.RESISTOR	18.2k 1/10W
R230	NRSA02J-151	M.G.RESISTOR	1.5K 1/10W
11230	INTOMUZJ-10Z	WI.G.NEGIGTUN	1.5%

5.6 SUB BOARD ASSEMBLY PARTS LIST 0.6 SCK2406-02-00A (TK-C601EG)

Symbol	Part No.	Part Name	Des	cription	Symbol	Part No.	Part Name	Descr	iption
No.			1000	1/10/4/	No.	FA701114	I.C.(M)	FUJI ELECTR	elC
R231	NRSA02J-221	M.G.RESISTOR	220	1/10W	IC201	FA7611M	1	JRC	iic
R232	NRSA02J-221	M.G.RESISTOR	220	1/10W	IC202	NJM78L09UA	I.C.(M)		
R234	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	IC203	TA76431F	I.C.(M)	TOSHIBA	
R235	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	IC204	TK11650U	1.C.(M)	токо	
R236	NRSA02J-103	M.G.RESISTOR	10K	1/10W	IC205	MC14046BF	I.C.(M)	MOTOROLA	
R237	NRSA02J-562	M.G.RESISTOR	5.6K	1/10W	IC206	TA7555F	1.C.(M)	TOSHIBA	
R238	NRSA02J-562	M.G.RESISTOR	5.6K	1/10W	IC207	UPC358G	I.C.(M)	NEC	
	NRSA02J-302	M.G.RESISTOR	10K	1/10W	1020	0.000			
R239			1	1/10W	1				
R240	NRSA02J-103	M.G.RESISTOR	10K	- 1	0004	0004040400	TRANSICTOR	MATSUSHITA	٨
R241	NRSA02J-333	M.G.RESISTOR	33K	1/10W	Q201 Q202	2SB1218A(RS) 2SA1736	TRANSISTOR TRANSISTOR	TOSHIBA	
R242	NRSA02J-225	M.G.RESISTOR	2.2M	1/10W	Q203	2SD1819A(RS)	TRANSISTOR	MATSUSHIT	A
R243	NRSA02J-223	M.G.RESISTOR	22K	1/10W	0204	2SB1218A(RS)	TRANSISTOR	MATSUSHIT	A
R244	NRSA02J-123	M.G.RESISTOR	12K	1/10W	0205	2SA1736	TRANSISTOR	TOSHIBA	
			33K	1/10W	Q206	2SD1819A(RS)	TRANSISTOR	MATSUSHIT	Δ
R245	NRSA02J-333	M.G.RESISTOR	I			l .		TOSHIBA	``
R246	NRSA02J-562	M.G.RESISTOR	5.6K	1/10W	Q207	2SC4541	TRANSISTOR	1	٨
R247	NRSA02J-223	M.G.RESISTOR	22K	1/10W	Q208	2SD1819A(RS)	TRANSISTOR	MATSUSHIT.	
R248	NRSA63J-223	M.G.RESISTOR	22K	1/16W	Q209	2SD1819A(RS)	TRANSISTOR	MATSUSHIT	
R249	NRSA63J-223	M.G.RESISTOR	22K	1/16W	Q210	2SD1819A(RS)	TRANSISTOR	MATSUSHIT.	A
R250	NRSA63J-ORO	M.G.RESISTOR	0	1/16W					
					D201	U1GWJ2C49	DIODE	TOSHIBA	
C201	NEA11HM-106	E.CAPACITOR	10	50V	D202	U1GWJ2C49	DIODE	TOSHIBA	
	NCB21HK-473	CER.CAPACITOR	0.047	50V	D203	MA151K	DIODE	MATSUSHIT	Α
C202			0.022	50V	D204	HZM12NB2	ZENNER DIODE	HITACHI	
C203	NCB21HK-223	CER.CAPACITOR		50V	Į.		DIODE	MATSUSHIT	. Δ
C204	NCT03CH-271	CER.CAPACITOR	270P		D205	MA147	DIODE	MAISOSIIII	
C205	NCT03CH-821	CER.CAPACITOR	820P	50V				4 714	4/4/014/
C206	NEF10JM-226	TAN.CAPACITOR	22	6.3V	R201	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
C207	NCB21HK-472	CER.CAPACITOR	4700P	50V	R202	NRSA63J-224	M.G.RESISTOR	220K	1/16W
C209	NCB21HK-222	CER.CAPACITOR	2200P	50V	R203	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W
C210	NCB21HK-473	CER.CAPACITOR	0.047	50V	R204	NRSA63J-153	M.G.RESISTOR	15K	1/16W
	NCB21HK-102	CER.CAPACITOR	1000P	50V	R205	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
C211	NCB21RK-102	CEN.CAPACITOR	10001	301	R206	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
1				501/	1		M.G.RESISTOR	150	1/10W
C212	NCT03CH-390	CER.CAPACITOR	39P	50V	R207	NRSA02J-151		ļ.	1/10W
C213	NCT03CH-220	CER.CAPACITOR	22P	50V	R208	NRSA02J-561	M.G.RESISTOR	560	
C214	NCT03CH-390	CER.CAPACITOR	39P	50V	R209	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W
C215	NCB21HK-473	CER.CAPACITOR	0.047	50V	R210	NRSA02J~391	M.G.RESISTOR	390	1/10W
C216	NEA11EM-106	E.CAPACITOR	10	25V					
C217	NEA11EM-106	E.CAPACITOR	10	25V	R211	NRSA63J-182	M.G.RESISTOR	1.8K	1/16W
	1	E.CAPACITOR	33	10V	R212	NRSA02J-471	M.G.RESISTOR	470	1/10W
C218	NEA11AM-336		1 '	25V		NRSA02J-471	M.G.RESISTOR	470	1/10W
C222	NCB21EK-393	CER.CAPACITOR	0.039		R213	1		470	1/10W
C223	NCB21HK-103	CER.CAPACITOR	0.010	50V	R214	NRSA02J-471	M.G.RESISTOR		
C225	NCB21EK-393	CER.CAPACITOR	0.039	25V	R215	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
					R216	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
C226	NCB21EK-104	CER.CAPACITOR	0.10	25V	R217	NRSA63J-393	M.G.RESISTOR	39K	1/16W
C227	NEN11EM-475	E.CAPACITOR	4.7	25V	R218	NRSA63J-394	M.G.RESISTOR	390K	1/16W
	NEN10JM-106	E.CAPACITOR	10	6.3V	R219	NRSA63J-184	M.G.RESISTOR	180K	1/16W
C228 C234	NEA11EM-106	E.CAPACITOR	10	25V	R220	NRSA63J-224	M.G.RESISTOR	220K	1/16W
					R221	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
1					1	NRSA63J-561	M.G.RESISTOR	560	1/16W
	1				R222			1	1/16W
					R223	NRSA63J-222	M.G.RESISTOR	2.2K	
1					R224	NRSA63J-153	M.G.RESISTOR	15K	1/16W
					R225	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
1	1				R226	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
1					R227	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W
					R228	NRSA02J-151	M.G.RESISTOR	150	1/10W
1					I I	NRSA02J-561	M.G.RESISTOR	560	1/10W
					R229 R230	NRSA63J-564	M.G.RESISTOR	560K	1/16W
						NDOAGO LAGA	M.C. DECICEOR	1004	1/16\\/
1					R231	NRSA63J-104	M.G.RESISTOR	100K	1/16W
					R232	NRSA63J-564	M.G.RESISTOR	560K	1/16W
1					R233	NRSA63J-563	M.G.RESISTOR	56K	1/ 16 W
1					R234	NRSA63J-563	M.G.RESISTOR	56K	1/16W
1									

5.7 TER BOARD ASSEMBLY PARTS LIST 07 SCK2408-02-NOA (TK-C600U)

SCK2408-02-P0A (TK-C600E)

Symbol No.	Part No.	Part Name	Desc	ription	Symbol No.	Part No.	Part Name	Description
R236	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W	D301	HZS27JB2	ZENER DIODE	HITACHI
R237	NRSA63J-103	M.G.RESISTOR	10K	1/16W	D302	HZS27JB2	ZENER DIODE	HITACHI
R238	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W	5002	112027002	ELITER BIODE	111110111
	NRSA63J-472		4.7K	1/16W				
R239		M.G.RESISTOR			10201	CEL 2210C	LEDICBEEN	
R240	NRSA63J-333	M.G.RESISTOR	33K	1/16W	LD301	SEL2310G	LED(GREEN)	
R241	NRSA63J-225	M.G.RESISTOR	2.2M	1/16W				1.04
R242	NRSA63J-393	M.G.RESISTOR	39K	1/16W	R301	QRD161J-102	CARBON RESISTOR	1.0K 1/6W
R243	NRSA63J-223	M.G.RESISTOR	22K	1/16W	R302	QRD161J-682	CARBON RESISTOR	6.8K 1/6W
R244	NRSA63J-123	M.G.RESISTOR	12K	1/16W	R303	QRD161J-472	CARBON RESISTOR	4.7K 1/6W
R245	NRSA63J-562	M.G.RESISTOR	5.6K	1/16W	R304	QRD161J-222	CARBON RESISTOR	2.2K 1/6W
R246	NRSA63J-103	M.G.RESISTOR	10K	1/16W	R305	QRD161J-0R0	CARBON RESISTOR	0 1/6W
R247	NRSA63J-472	M.G.RESISTOR	4.7K	1/16W	R306	QRD161J-103	CARBON RESISTOR	10K 1/6W
R251	NRSA63J-223	M.G.RESISTOR	22K	1/16W	R307	QRD161J-103	CARBON RESISTOR	10K 1/6W
R252	NRSA63J-223	M.G.RESISTOR	22K	1/16W	R308	QRD161J-103	CARBON RESISTOR	10K 1/6W
R253	NRSA63J-223	M.G.RESISTOR	22K	1/16W	R309	QRD161J-0R0	CARBON RESISTOR	0 1/6W
R254	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	R310	QRD161J-0R0	CARBON RESISTOR	0 1/6W
C201	NEA11HM-106	E.CAPACITOR	10	50V	R311	QRD161J-ORO	CARBON RESISTOR	0 1/6W
C202	NCB21HK-102	CER.CAPACITOR	1000P	50V	R312	QRD161J~822	CARBON RESISTOR	8.2K 1/6W
C203	NCB21HK-473	CER.CAPACITOR	0.047	50V	R313	QRD161J-822	CARBON RESISTOR	8.2K 1/6W
C204	NEF11CM-105	TAN.CAPACITOR	1.0	16V	R314	QRD161J-222	CARBON RESISTOR	2.2K 1/6W
C205	NEF11AM-225	TAN.CAPACITOR	2.2	10V	R315	QRD161J-0R0	CARBON RESISTOR	0 1/6W
C206	NCB21HK-102	CER.CAPACITOR	1000P	50V				
C207	NCB21HK-223	CER.CAPACITOR	0.022	50V				
C208	NCT03CH-271	CER.CAPACITOR	270P	50V	VR301	QVPC406-103	TRIM.RESISTOR	10K GAIN
C209	NCT03CH-821	CER.CAPACITOR	820P	50V	VR302	QVPC406-103	TRIM.RESISTOR	10K V PHASE
C210	NEF10JM-226	TAN.CAPACITOR	22	6.3V	1	4170100100		
C211	NCB21HK-102	CER.CAPACITOR	1000P	50V	C301	QCZ0206-104	CER.CAPACITOR	0.10
C212	NCB21HK-473	CER.CAPACITOR	0.047	50V				
C213	NCB21HK-473	CER.CAPACITOR	0.047	50V	1			
C214	NCB21HK-103	CER.CAPACITOR	0.010	50V	SW301	SCV2521-001	DIP SWITCH	
C215	NCB21HK-103	CER.CAPACITOR	0.010	50V				
C216	NCB21EK-104	CER.CAPACITOR	0.10	25V				A I
C217	NCB21EK-104	CER.CAPACITOR	0.10	25V	CN301	SCV2447-018	CONNECTOR	18-PIN
C218	NCB21EK-104	CER.CAPACITOR	0.10	25V				
C219	NCB21EK-393	CER.CAPACITOR	0.039	25V				
C221	NCB21HK-103	CER.CAPACITOR	0.010	50V	VA301 VA302	ERZ-C03DK820 ERZ-C03DK820	SURGE ARRESTER	MATSUSHITA MATSUSHITA
C222	NCB21EK-393	CER.CAPACITOR	0.039	25V	1	2.12 000511020	001102 11111201211	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C223	NEN10JM-106	E.CAPACITOR	10	6.3V		*		
C224	NEN 1 1EM-475	E.CAPACITOR	4.7	25V				
	NEF11CM-106	TAN.CAPACITOR	10	16V				
0230	INCELLOW-100	TAN.CAFACTION	10	100				

5.8 TER BOARD ASSEMBLY PARTS LIST 08 SCK2405-02-POA (TK-C601EG) 08

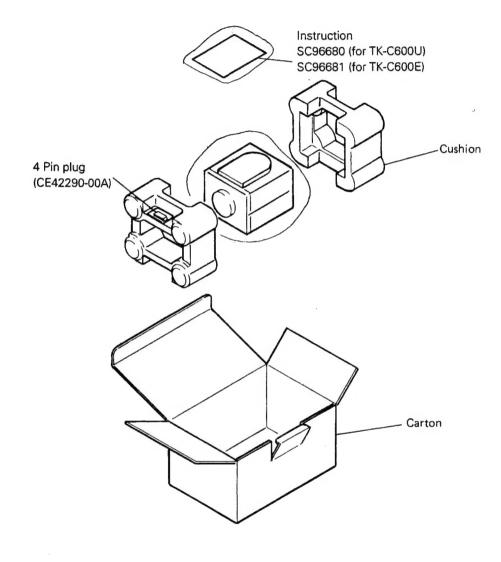
5.9 EE BOARD ASSEMBLY PARTS LIST 0 9 SCK2409-01-00A (TK-C600) SCK2406-01-00A (TK-C601EG)

301	K2405-02-PUA	(IN-COUTED)	
Symbol No.	Part No.	Part Name	Description
D301 D302	HZS27JB2 HZS27JB2	ZENER DIODE ZENER DIODE	HITACHI HITACHI
LD301	SEL2310G	LED(GREEN)	
R301 R302 R303 R304 R305 R306 R307 R308 R309 R312	QRD161J-102 QRD161J-682 QRD161J-472 QRD161J-222 QRD161J-0R0 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-0R0 QRD161J-0R0 QRD161J-822	CARBON RESISTOR	1.0K 1/6W 6.8K 1/6W 4.7K 1/6W 2.2K 1/6W 0 1/6W 10K 1/6W 10K 1/6W 10K 1/6W 0 1/6W 0 1/6W 8.2K 1/6W
R313 R314	QRD161J-822 QRD161J-222	CARBON RESISTOR CARBON RESISTOR	8.2K 1/6W 2.2K 1/6W
VR301 VR302	QVPC406-103 QVPC406-103	TRIM.RESISTOR TRIM.RESISTOR	10K GAIN 10K V PHASE
C301	QCZ0206-104	CER.CAPACITOR	0.10
SW301	SCV2521-001	DIP SWITCH	
CN301	SCV2447-018	CONNECTOR	18-PIN

Symbol No.	Part No.	Part Name	Description
IC401	NJM2904M	1.C.(M)	JRC
	COD4.04.04.(DO)	TOANGICTOR	MATSUSHITA
Q401	2SB1218A(RS)	TRANSISTOR	MATSUSHITA
Q402	2SD1819A(RS) 2SD1819A(RS)	TRANSISTOR TRANSISTOR	MATSUSHITA
Q403 Q405	2SD1819A(RS)	TRANSISTOR	MATSUSHITA
Q405	23D1013A(N3)	MANSISTON	MATOGOTITA
D401	MA3240(M)	ZENER DIODE	MATSUSHITA
D402	MA3240(M)	ZENER DIODE	MATSUSHITA
D403	MA3240(M)	ZENER DIODE	MATSUSHITA
R401	NRSA63J-102	M.G.RESISTOR	1.0K 1/16W
R402	NRSA63J-ORO	M.G.RESISTOR	0 1/16W
R403	NRSA63J-563	M.G.RESISTOR	56K 1/16W
R404	NRSA63J-223	M.G.RESISTOR	22K 1/16W
R405	NRSA63J-223	M.G.RESISTOR	22K 1/16W
R406	NRSA63J-ORO	M.G.RESISTOR	0 1/16W
R407	NRSA63J-104	M.G.RESISTOR	100K 1/16W
R408	NRSA63J-221	M.G.RESISTOR	220 1/16W
R410	NRSA63J-393	M.G.RESISTOR	39K 1/16W
R411	NRSA63J-392	M.G.RESISTOR	3.9K 1/16W
R412	NRSA63J-222	M.G.RESISTOR	2.2K 1/16W
R413	NRSA63J-102	M.G.RESISTOR	1.0K 1/16W
R414	NRSA63J-823	M.G.RESISTOR	82K 1/16W
R415	NRSA63J-823	M.G.RESISTOR	82K 1/16W
R416	NRSA63J-103	M.G.RESISTOR	10K 1/16W
R417	NRSA63J-471	M.G.RESISTOR	470 1/16W
R418	NRSA63J-471	M.G.RESISTOR	470 1/16W
R419	NRSA63J-820	M.G.RESISTOR	82 1/16W
R421	NRSA63J-470	M.G.RESISTOR	47 1/16W
R422	NRSA63J-470	M.G.RESISTOR	47 1/16W
VR401	QVPB609-103	TRIM.RESISTOR	10K ALC LEVEL
C401	NEE21CM-105	TAN.CAPACITOR	1.0 16V
C402	NEE11CM-226	TAN.CAPACITOR	22 16V
C403	NEE10JM-336	TAN.CAPACITOR	33 6.3V
C404	NEF11AM-475	TAN.CAPACITOR	4.7 10V
C405	NEE21CM-105	TAN.CAPACITOR	1.0 16V
C406	NCB21HK-473	CER.CAPACITOR	0.047 50V
C407	NCB21HK-473	CER.CAPACITOR	0.047 50V
C408	NCB21HK-102	CER.CAPACITOR	1000P 50V
C409	NCT03CH-101	CER.CAPACITOR	100P 50V 47P 50V
C410	NCT03CH-470	CER.CAPACITOR	47P 50V
C411	NCT03CH-470	CER.CAPACITOR	47P 50V
C412	NCT03CH-470	CER.CAPACITOR	47P 50V
C413	NCT03CH-470	CER.CAPACITOR	47P 50V
	-		
L401	SSV1330-150	COIL	15µH
1424	00/0101 001	COMMECTOR	4-PIN
J401	SCV2101-001	CONNECTOR	+ FIIN
CN401	SSV1321-006	CONNECTOR	6-PIN

SECTION 6 REPACKING

■ TK-C600



■ TK-C601EG

